# CDP-C90ES/C910

# SERVICE MANUAL

*US Model*
*Canadian Model*
*CDP-C90ES*

*US Model*
*Canadian Model*
*AEP Model*
*E Model*
*Australian Model*
*CDP-C910*

**Photo : CDP-C90ES**

| Model Name Using Similar Mechanism | New Mechanism |
|---|---|
| CD Mechanism Name | CDM10-5BD7 |
| Base Unit Name | BU-5BD7 |

## SPECIFICATIONS

**Compact Disc Player**

| | |
|---|---|
| Frequency response | 2 Hz - 20 kHz (±0.3 dB) |
| Signal to noise ratio | More than 110 dB |
| Dynamic range | More than 100 dB |
| Harmonic distortion | Less than 0.0030% |
| Channel separation | More than 105 dB |

**Outputs**

| | |
|---|---|
| LINE OUT (FIXED) (phono jacks) | Output level 2 V (at 50 kiloohms) Load impedance over 10 kiloohms |
| LINE OUT (VARIABLE) (phono jacks) | Output level max 2 V (at 50 kiloohms) Load impedance over 10 kiloohms |
| DIGITAL OUTPUT (OPTICAL) (optical output connector) | Wave length 660 nm Output level −18 dBm |
| HEADPHONES (stereo phone jack) | Output level max. 15 mW Load impedance 32 ohms |

**General**

Power requirements
- US, Canadian model : AC120V, 60Hz
- AEP model : 220-230V AC , 50/60Hz
- E model : 110-120V or 220-240V AC adjustable 50/60Hz
- Australian model : AC240V, 50Hz/60Hz

Power consumption
- CDP-C910(US, Australian) model, CDP-C90ES(US, Canadian) model : 18W
- CDP-C910(Canadian, AEP, E, Australian) model : 15W

Dimensions (w/h/d)
- CDP-C910 model : Approx. 430 × 125 × 385 mm (17 × 5 × 15 1/4 inches)
- CDP-C90ES model : Approx. 470 × 125 × 385 mm (18 5/8 × 5 × 15 1/4 inches) Including projecting parts and controls

Weight
- CDP-C910 model : Approx. 6.3kg(13 lbs 15 oz),net
- CDP-C90ES model : Approx. 7.4kg(16 lbs 6 oz)net

**Supplied Accessories**

Connecting cord
(2 phono plugs ↔ 2 phono plugs) (1)
Disc magazine (1)
Remote commander (1)
Size AA batteries (2)

Design and specifications subject to change without notice.

*MC-Service*

**COMPACT DISK PLAYER**

**SONY**

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

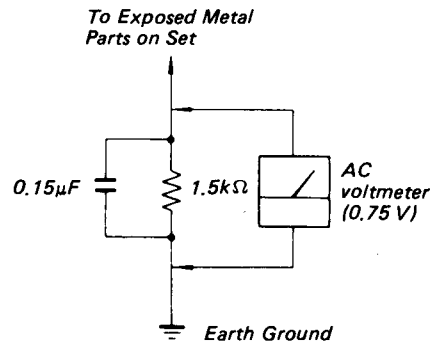


*Fig. A. Using an AC voltmeter to check AC leakage.*

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

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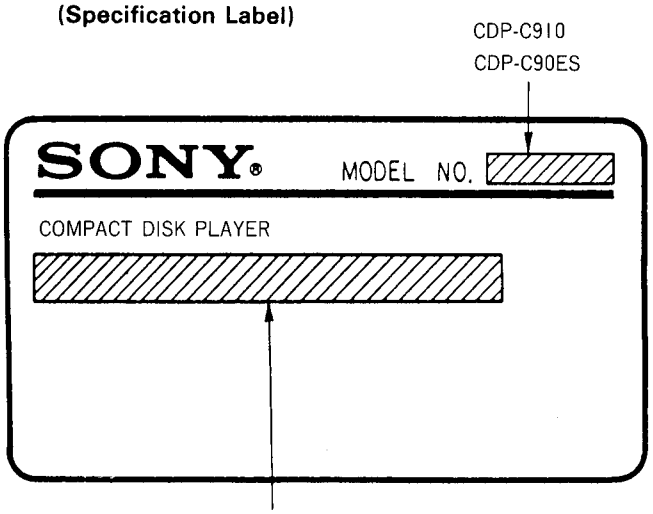
### MODEL IDENTIFICATION

**(Specification Label)**




US, Canadian model: AC: 120V 60Hz 15W
AEP model: AC: 220-230V~50/60Hz
E model: AC: 110-120V, 220-230V~50/60Hz 15W
Australian model: AC: 240V~50/60Hz

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

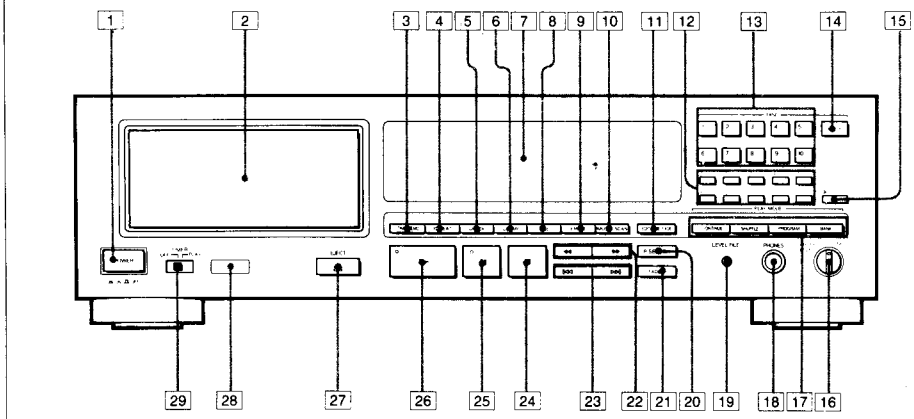
**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

This section is extracted from instruction manual.

# SECTION 1
# GENERAL

## Location of Controls

### Front Panel

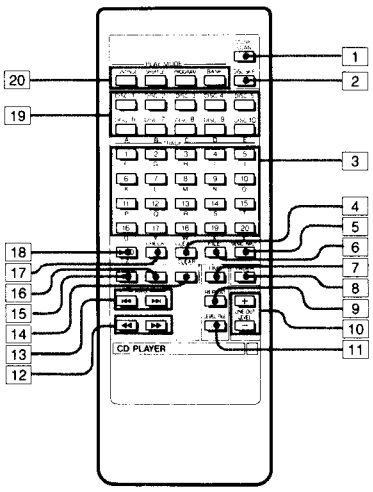



Refer to the pages indicated in ● for details.

1 POWER switch ❾
2 Magazine slot ❽
3 TIME/MEMO button ❿
4 REPEAT button ⓭
5 CHECK (program check) button ⓯
6 CLEAR (program clear) button ⓰
7 Display window ❿
8 FILE button ⓫
9 ERASE button ⓫
10 MUSIC SCAN button ⓴
11 EDIT/TIME FADE button ⓰ ⓲
12 Track buttons ⓫
13 DISC selectors ❾
14 DISC SKIP button ⓫
15 >10 (over 10) button ⓫
16 PHONE LEVEL/LINE OUT LEVEL control ❺ ❾
17 PLAY MODE buttons
CONTINUE button ❾
SHUFFLE button ⓱
PROGRAM button ⓮
BANK button ㉔
18 HEADPHONES jack
19 LEVEL FILE button ㉕
20 P(peak).SEARCH button ⓳
21 FADER button ⓲
22 ◀◀ ▶▶ (manual search) buttons ⓫
23 ⏮ ⏭ (AMS*) buttons ⓫
24 ■ (stop) button ❾
25 ❚❚ (pause) button/indicator ❾
26 ▶ (play) button/indicator ❾
27 ⏏ EJECT button ❾
28 Remote sensor
29 TIMER switch ㉖

* AMS is the abbreviation of Automatic Music Sensor.

### Remote Commander

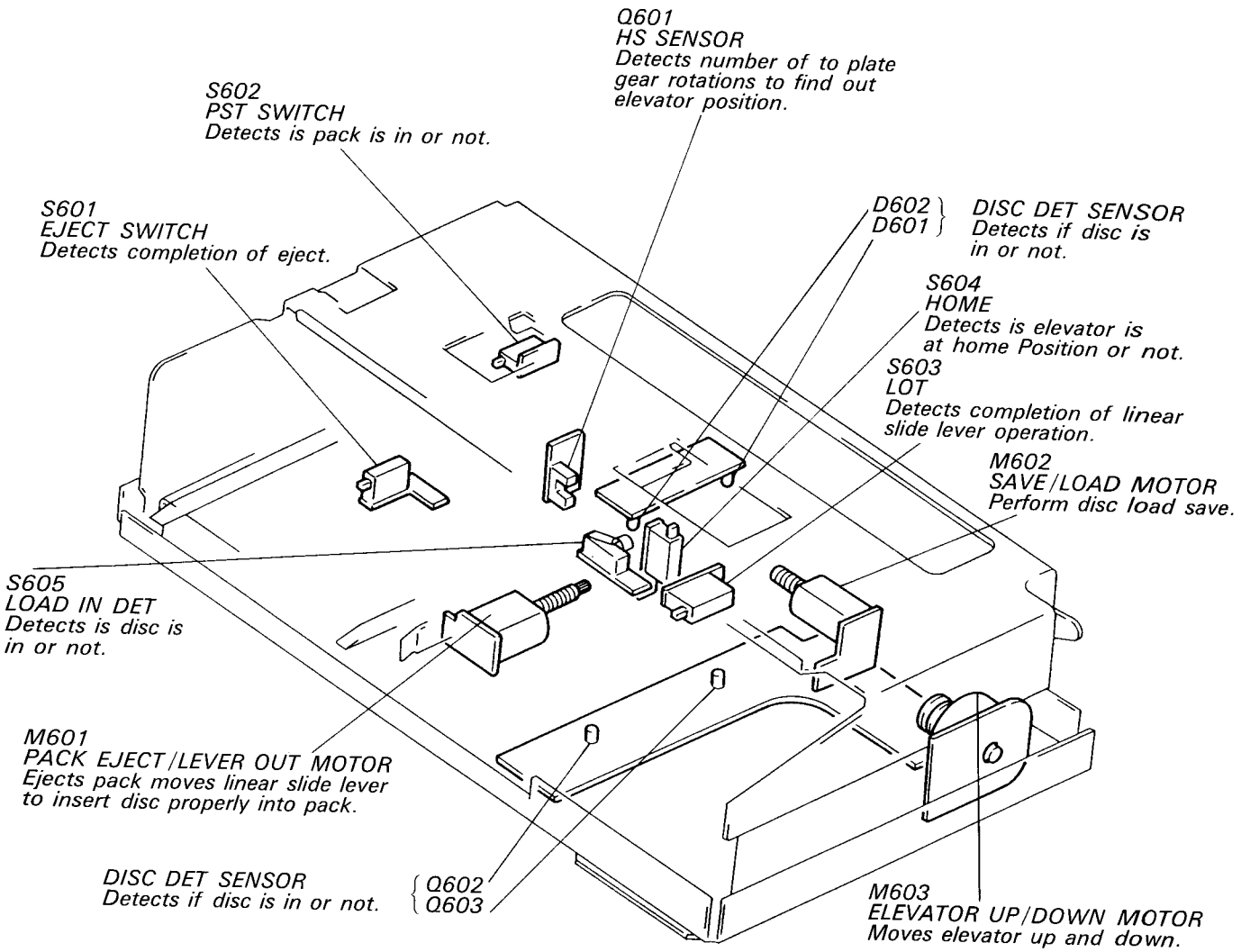



Refer to the pages indicated in ● for details.

1 MUSIC SCAN button ⓴
2 DISC SKIP button ⓫
3 Track buttons ⓫
4 CLEAR (program clear) button ⓰
5 MEMO INPUT button ⓬
6 FILE button ⓫
7 TIME button ❿
8 FADER button ⓲
9 REPEAT button ⓭
10 LINE OUT LEVEL buttons ❺ ❾
11 LEVEL FILE button ㉕
12 ◀◀ ▶▶ (manual search) buttons ⓫
13 ⏮ ⏭ (AMS) buttons ⓫
14 ■ (stop) button ❾
15 ▶ (play) button ❾
16 ❚❚ (pause) button ❾
17 CHECK (program check) button ⓯
18 >20 (over 20) button ⓫
19 DISC selectors ❾
20 PLAY MODE buttons
CONTINUE button ❾
SHUFFLE button ⓱
PROGRAM button ⓮
BANK button ㉔

Buttons with yellow letters (A, B, C, .....) are for writing a disc memo (page 22).

# SECTION 2
# SWITCH AND SENSOR OPERATIONS

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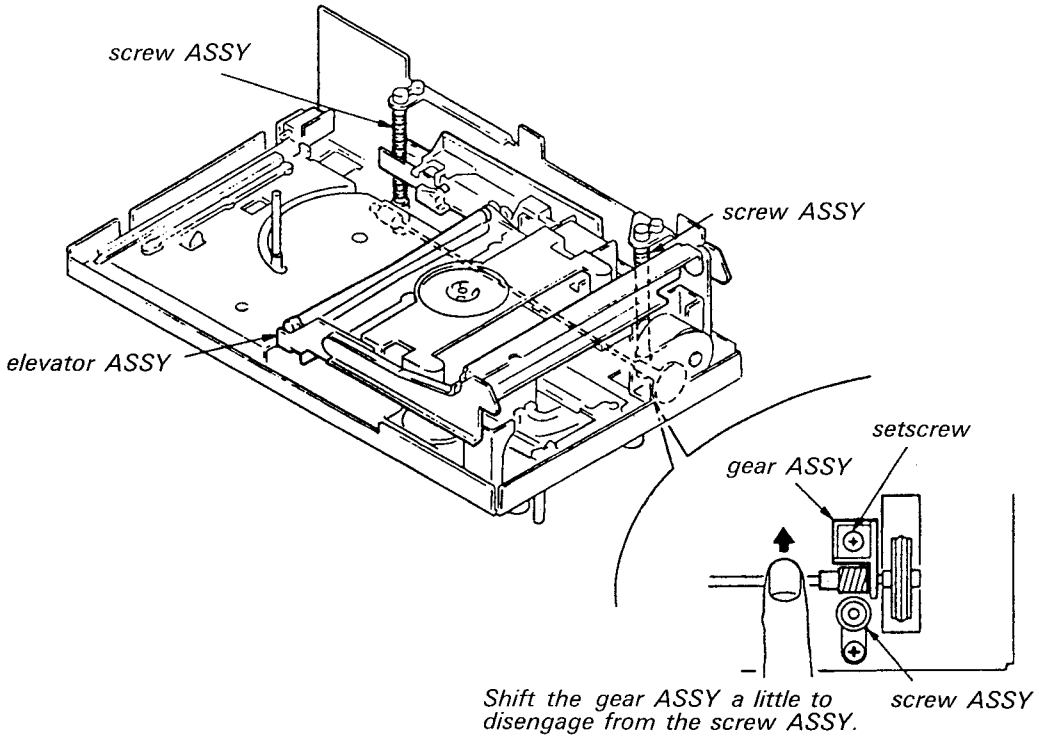
# SECTION 3
# MECHANICAL ADJUSTMENTS

## LEVELING OF ELEVATOR ASSY

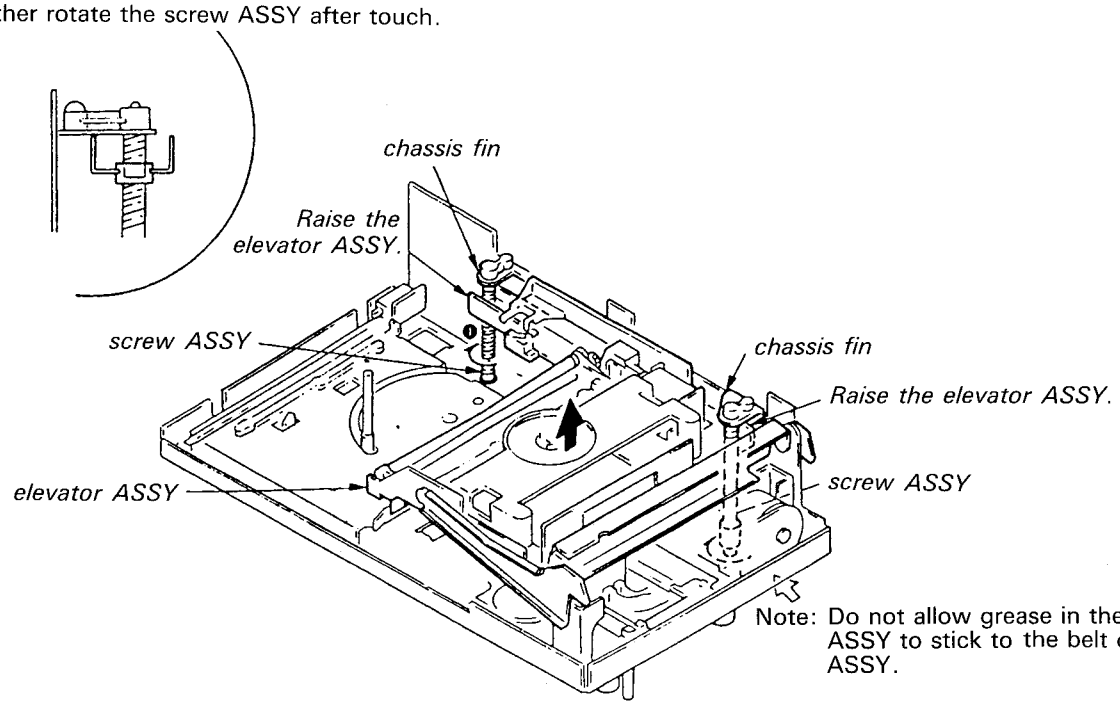
**Adjusting Method:**

*1. Loosen a setscrew on the gear ASSY to free the screw ASSY on both sides.*




*2. Rotating the screw ASSY on both side in arrow ① direction, raise the elevator ASSY while keeping it level until the elevator rise-up portion touches the chassis fin, then tighten a setscrews on the gear ASSY. (See "Leveling of Elevator ASSY".)*

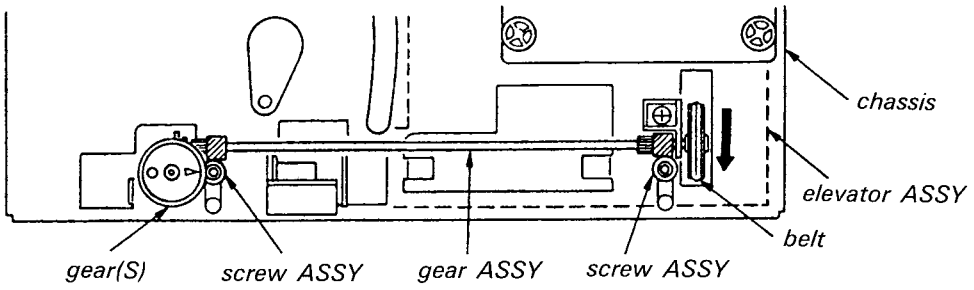
Note: Do not further rotate the screw ASSY after touch.


chassis fin
Raise the elevator ASSY.
screw ASSY
chassis fin
Raise the elevator ASSY.
elevator ASSY
screw ASSY
Note: Do not allow grease in the screw ASSY to stick to the belt of gear ASSY.

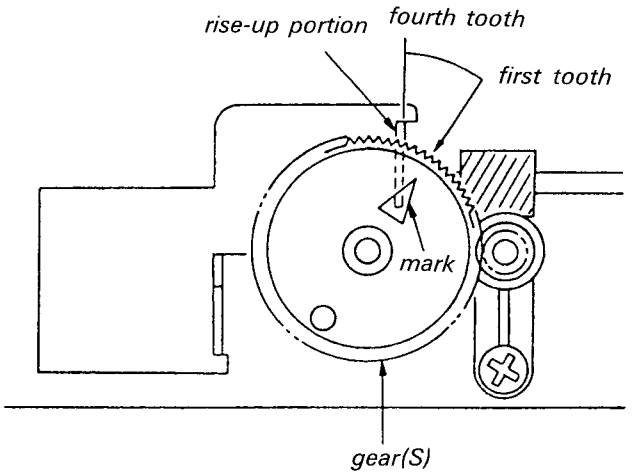
## ADJUSTMENT OF ELEVATOR ASSY HEIGHT

**Adjusting Method:**

*1. Rotating the belt of gear ASSY in the arrow direction, raise the elevator ASSY until it touches the chassis.*



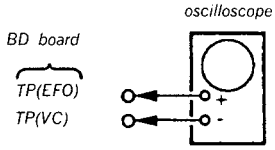

*2. Assuming that the marked tooth on gear(S) is the first tooth, align the fourth tooth with chassis rise-up portion, and fix.*



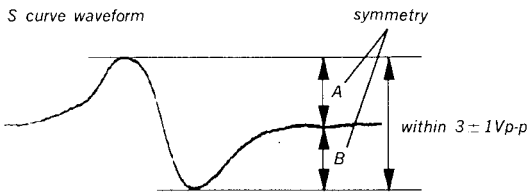
# SECTION 4
# ELECTRICAL BLOCK CHECKING

**Note:**
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

## S Curve Check



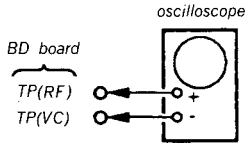

**Precedure:**
1. Connect osilloscope to test point TP(FEO) on BD board.
2. Connect between test point TP(FES) and TP (VC) by lead wire.
3. Turned Poswer switch on and actuate the focus serch.(actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform(S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.




5. After check, remove the lead wire connected in step 2.

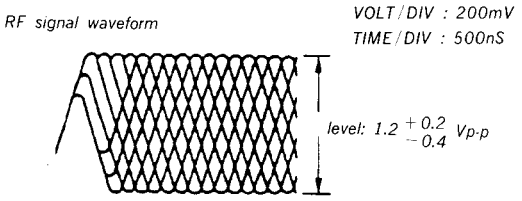
**Note :** • Try to mesure several times to make sure that the ratio of A:B or B:A is more than 10:7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

## RF Level Check

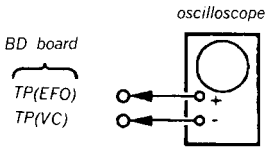



**Procedure:**
1. Connect oscilloscope to test point TP(RF) on BD board.
2. Turn Power switch on.
3. Put disc(YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

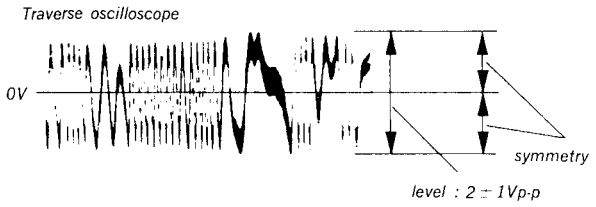
**Note:**
Clear RF signal waveform means that the shape " ◇ " can be clearly distinguished at the center of the waveform.




## E-F Balance Check




**Procedure:**
1. Connect test point TP(ADJ) to ground and TP (TES) to TP(VC) with lead wire.
2. Connect oscilloscope to test point TP(TEO) on BD board.

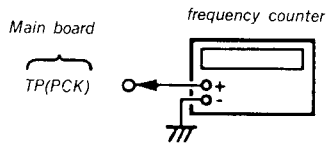



3. Turn Power switch on.
4. Put disc(YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on th top and bottm in relation to 1V, and check this level.
6. Remove the lead wire connected in step 1.

### RF PLL Free-run Frequency Check

**Procedure:**

1. Connect frequency counter to test point(PCK) with lead wire.



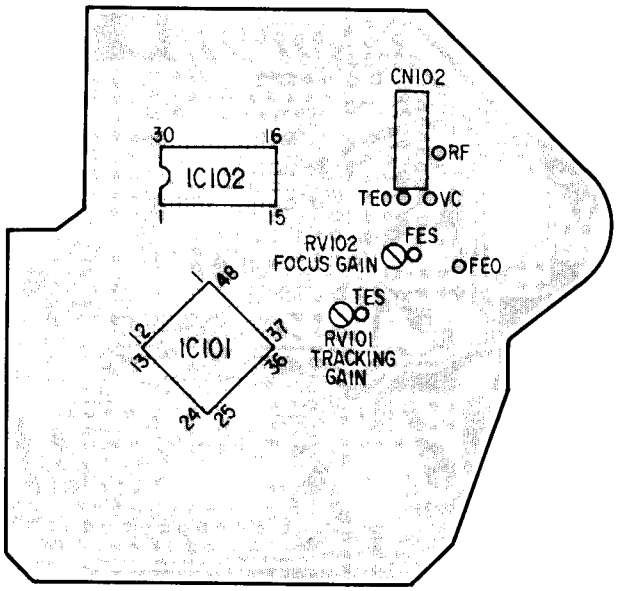

2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

### Focus/Tracking Gain

This gain has a margin, so even if it is slightly off. There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

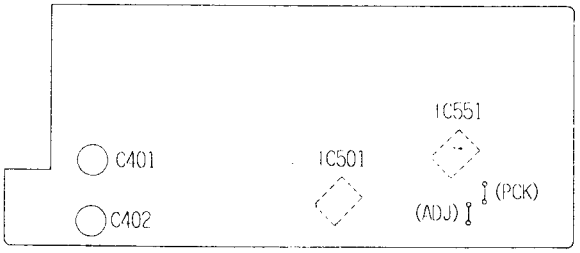
**Adjustment Locations:**
**[BD board]**

— conductor side —




**[Main board]**

— component side —




*MC-Service*

# SECTION 5
# DIAGRAMS

## 5-1. PRINTED WIRING BOARDS

• Refer to page 20,21 for Circuit Boards Location and Semiconductor Lead Layouts.

• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D301 | B-15 | IC411 | E-24 |
| D302 | C-20 | IC431 | A-18 |
| D303 | E-12 | IC501 | F-17 |
| D351 | G-9 | IC502 | D-17 |
| D401 | E-22 | IC503 | E-19 |
| D402 | E-22 | IC504 | E-19 |
| D403 | E-22 | IC505 | F-19 |
| D404 | F-22 | IC551 | D-14 |
| D411 | E-24 | IC552 | A-20 |
| D412 | E-24 | IC701 | I-17 |
| D421 | A-19 | IC751 | I-23 |
| D422 | A-19 | | |
| D505 | D-18 | Q101(MAIN) | B-19 |
| D506 | E-18 | Q101(BD) | F-27 |
| D507 | E-18 | Q102 | B-19 |
| D514 | E-18 | Q103 | B-19 |
| D515 | F-18 | Q104 | B-20 |
| D601 | G-4 | Q201 | B-19 |
| D602 | G-6 | Q202 | B-19 |
| D701 | H-16 | Q203 | B-19 |
| D702 | H-16 | Q204 | C-20 |
| D703 | H-16 | Q301 | B-20 |
| D704 | H-16 | Q302 | F-19 |
| D705 | H-16 | Q303 | C-12 |
| D706 | I-16 | Q401 | E-21 |
| D707 | I-16 | Q402 | F-21 |
| D711 | I-20 | Q411 | F-24 |
| D712 | I-20 | Q412 | F-24 |
| D713 | I-20 | Q413 | F-24 |
| D714 | I-20 | Q414 | E-24 |
| D715 | I-20 | Q431 | B-20 |
| D716 | I-20 | Q501 | F-18 |
| D721 | J-21 | Q502 | F-18 |
| D722 | J-20 | Q503 | F-18 |
| D801 | B-9 | Q504 | F-18 |
| D802 | A-9 | Q505 | F-18 |
| D803 | A-9 | Q506 | F-18 |
| | | Q601 | C-4 |
| IC101 | E-27 | Q602 | A-5 |
| IC102 | D-27 | Q603 | A-3 |
| IC301 | B-14 | Q701 | J-18 |
| IC302 | B-16 | Q702 | J-19 |
| IC303 | B-17 | Q703 | J-23 |
| IC304 | B-18 | Q802 | B-9 |
| IC320 | D-12 | Q803 | B-10 |
| IC401 | E-21 | | |

Note:

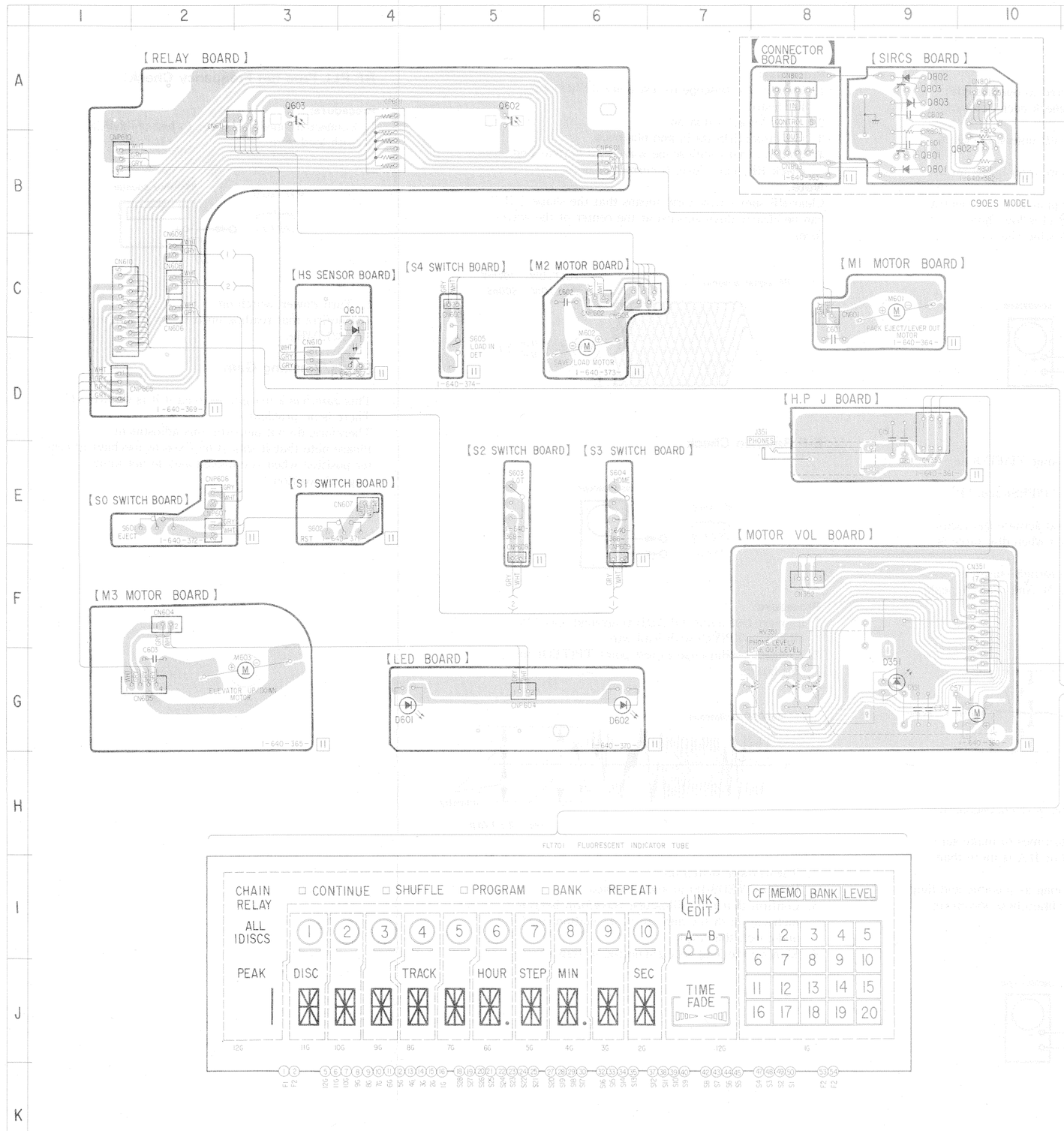
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

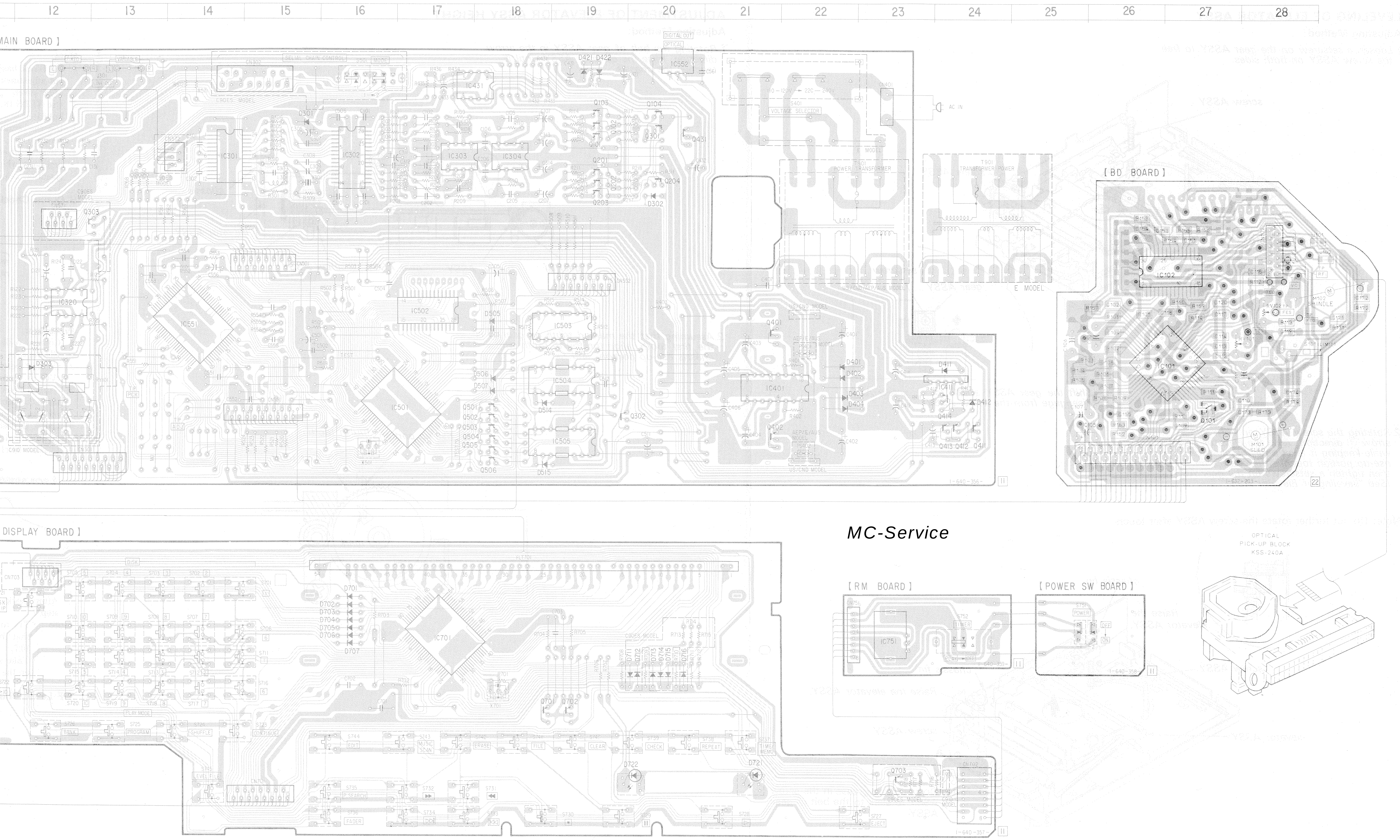
CND : Canadian

AUS : Australian

C910 : CDP-C910

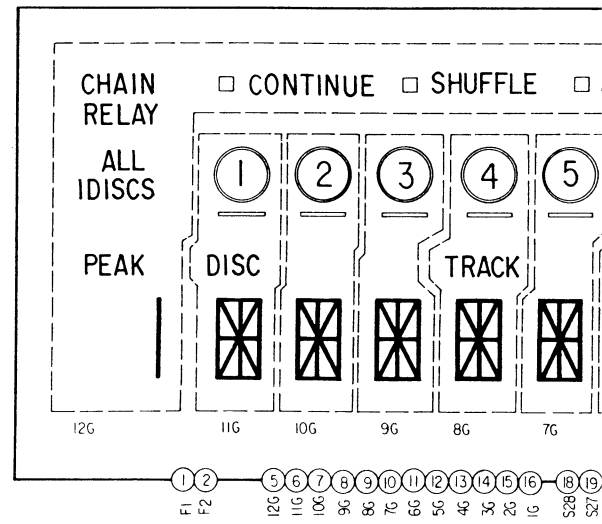
C90ES : CDP-C90ES





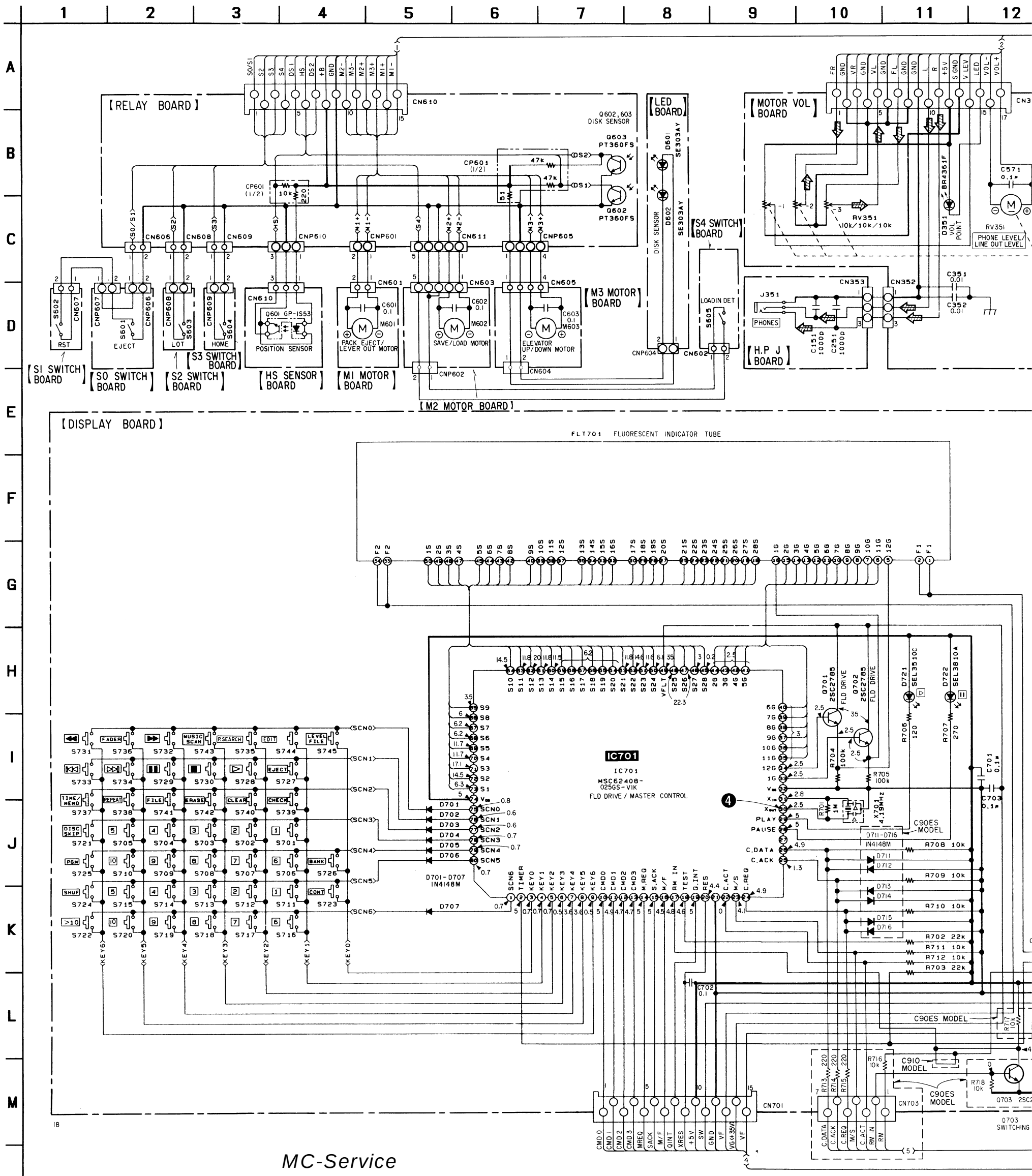
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
[MAIN BOARD]
DIGITAL OUT
OPTICAL
SELIAL CHAIN CONTROL
MODE
VOLTAGE SELECTOR
110 — 120V ⟷ 220 — 240V
AC IN
E MODEL
T901 POWER TRANSFORMER
T901 TRANSFORMER POWER
US/CND/AEP/AUS MODEL
US/CND MODEL
AEP/E/AUS MODEL
C90ES MODEL
C910 MODEL
1-640-356-
[BD BOARD]
M102 SPINDLE
M101 SLED
S101 LIMIT
1-632-203-
[DISPLAY BOARD]
DISK
PLAY MODE
BANK
PROGRAM
SHUFFLE
CONTINUE
LEVEL FILE
EDIT
MUSIC SCAN
ERASE
FILE
CLEAR
CHECK
REPEAT
TIME/MEMO
FADER
EJECT
1-640-357-
[RM BOARD]
TIMER
PLAY
OFF
1-640-359-
[POWER SW BOARD]
POWER
OFF
ON
1-640-358-
OPTICAL
PICK-UP BLOCK
KSS-240A


MC-Service

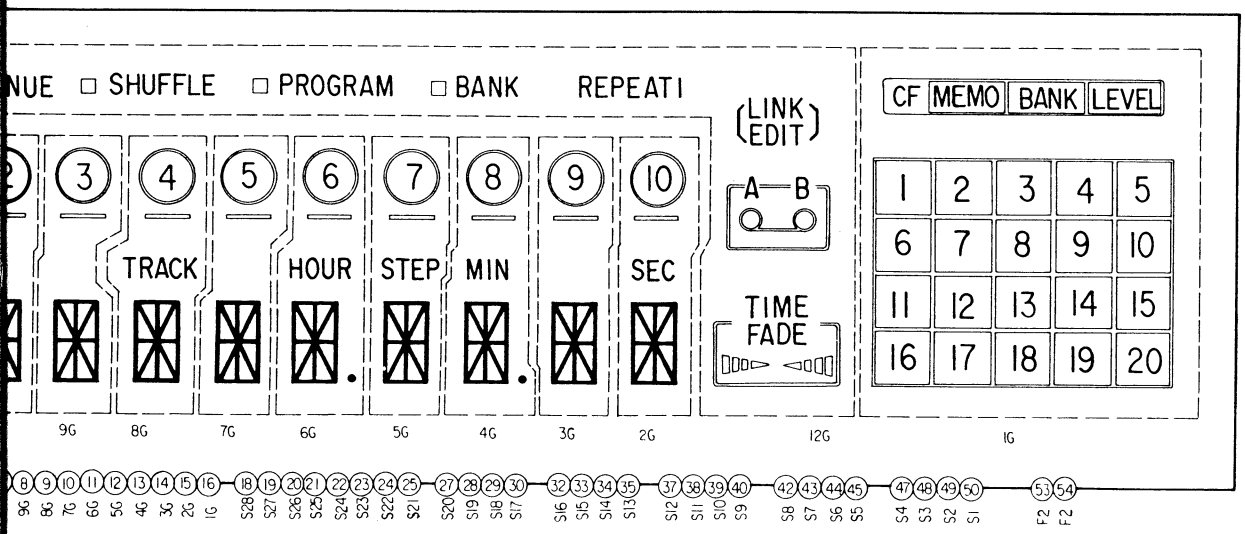



## 5-2. SCHEMATIC DIAGRAM MAIN Section

• Refer to page 20,21 for Circuit Boards Location and Semiconductor Lead Layouts.



FLT701 FLUORESCENT INDICATOR TUBE




**Note:**

- All capacitors are in μF unless otherwise noted. pF: 50WV or less are not indicated except for electroly and tantalums.
- All resistors are in Ω and 1/4 W or less unless other specified.
- % : indicates tolerance.
- △ : internal component.

| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés p une marque ⚠ sont critiqu pour la sécurité. Ne les remplacer que par u pièce portant le numéro spé fié. |

- ▬▬ : B+ Line
- ▬ ▬ : B– Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to grc under no-signal (detuned) conditions.
  no mark : Stop mode
  *: Impossible to measure the voltage at the marked p

**uctor Lead Layouts.**

11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

μF unless otherwise noted. pF: μμF
ot indicated except for electrolytics

Ω and 1/4 W or less unless otherwise

erance.
ponent.

| | |
|---|---|
| | **Note:**<br>Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

or repair.
rms are dc with respect to ground
uned) conditions.

o measure the voltage at the marked points.

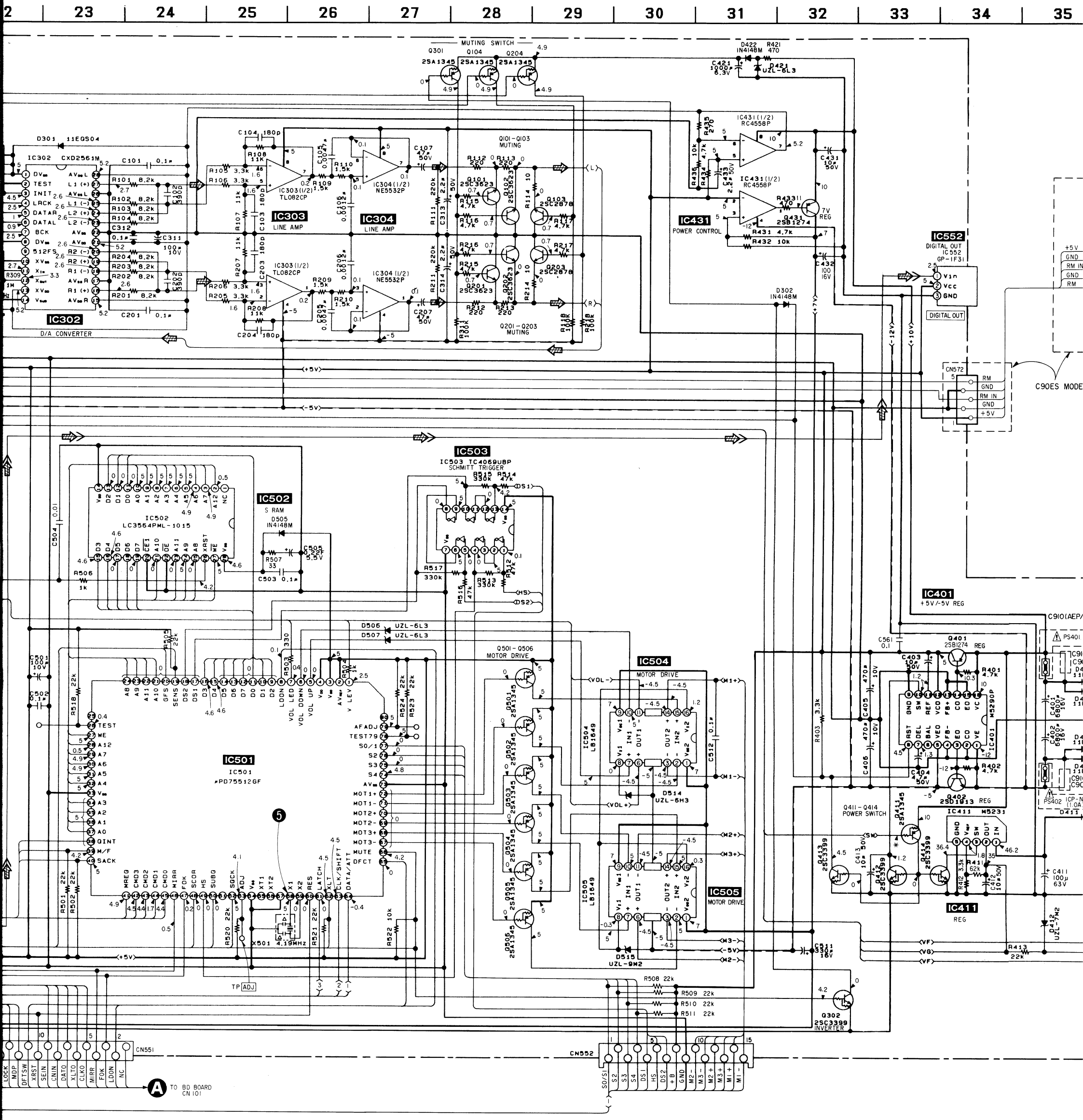
- Voltages are taken with a VOM (Input Impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out

CND : Canadian

AUS : Australian

C910 : CDP-C910

C90ES : CDP-C90ES

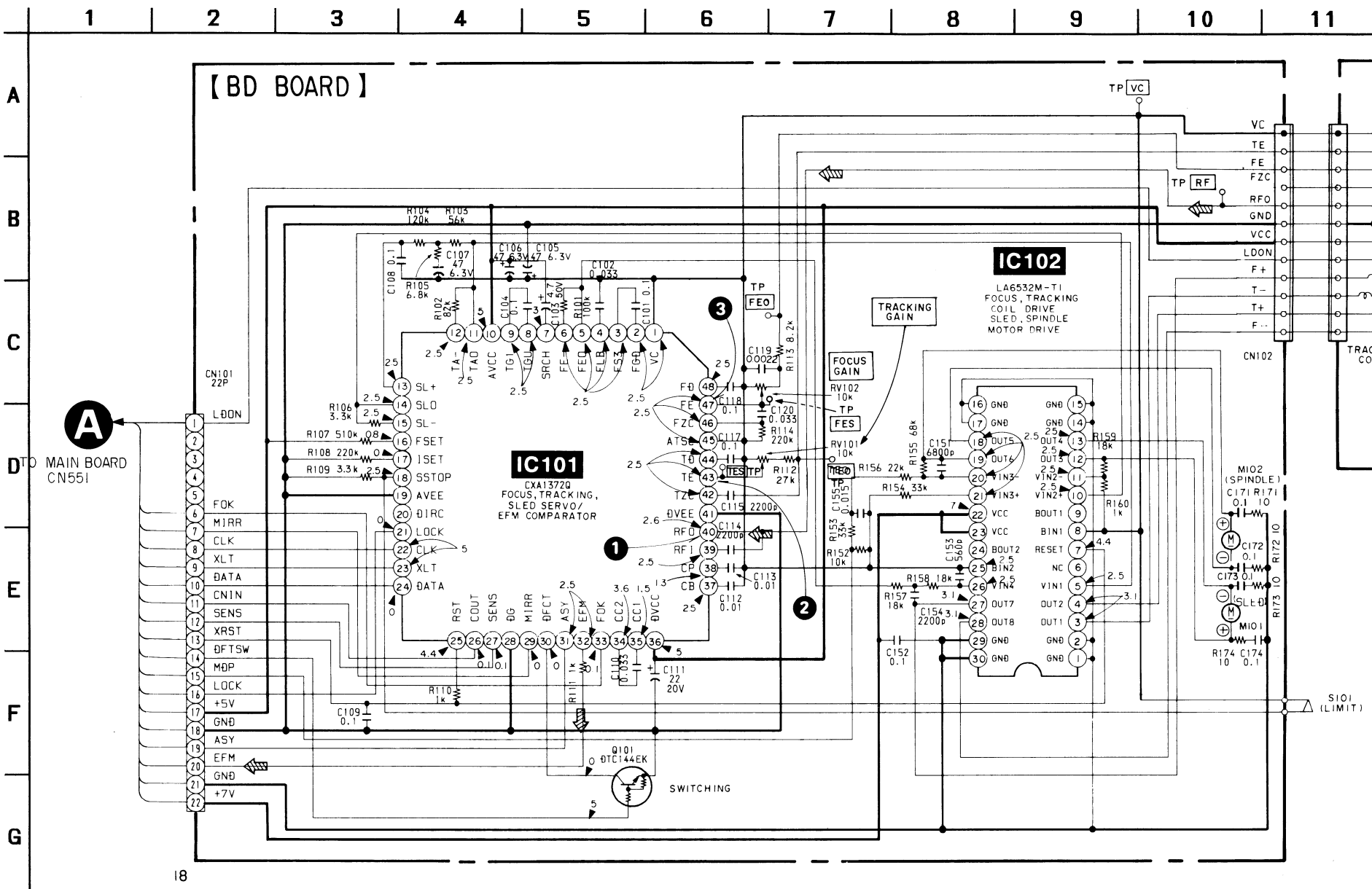


oltages are taken with a VOM (Input Impedance 10MΩ).
oltage variations may be noted due to normal produc-
n tolerances.
aveforms are taken with a oscilloscope.
oltage variations may be noted due to normal produc-
n tolerances.
rcled numbers refer to waveforms.
gnal path.
» : CD
»» : digital out
CND : Canadian
AUS : Australian
C910 : CDP-C910
90ES : CDP-C90ES

26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37

MUTING SWITCH
Q301 2SA1345
Q104 2SA1345
Q204 2SA1345
Q101-Q103 MUTING
IC304 (1/2) NE5532P
IC304 LINE AMP
Q201-Q203 MUTING
IC431 (1/2) RC4558P
IC431 POWER CONTROL
IC431 (1/2) RC4558P
7V REG
Q431 2SB1274
D422 IN4148M
R421 470
C421 1000µ 6.3V
D421 UZL-6L3
D302 IN4148M
IC552
DIGITAL OUT IC552 GP-1F31
DIGITAL OUT
CN572
RM
GND
RM IN
GND
+5V
C90ES MODEL
【SIRCS BOARD】
Q801 2SA1348
Q802 2SA1348
Q803 2SA1348
Q801-803 SWITCHING
D801 IN4148M
D802 IN4148M
D803 UZL-6L1
CN801
CN802
CONTROL S IN
CN803
CONTROL S OUT
【CONNECTOR BOARD】
IC503
IC503 TC4069UBP SCHMITT TRIGGER
D506 UZL-6L3
D507 UZL-6L3
Q501-Q506 MOTOR DRIVE
IC504 MOTOR DRIVE
IC504 LB1649
IC505 LB1649
IC505 MOTOR DRIVE
D514 UZL-6H3
D515 UZL-9M2
IC401 +5V/-5V REG
C910(AEP/E/AUS) MODEL
C90ES MODEL
Q401 2SB1274 REG
Q402 2SD1913 REG
IC401 M5290P
IC411 M5231
IC411 REG
Q411-Q414 POWER SWITCH
Q411 2SA1345
Q412 2SC3399
Q413 2SC3399
Q414 2SC3399
D412 UZL-7M2
R413 22k
Q302 2SC3399 INVERTER
R508 22k
R509 22k
R510 22k
R511 22k
CN552
SO/S1
S2
S3
S4
DS1
HS
DS2
+B
GND
M2-
M3-
M2+
M3+
M1+
M1-
T901 POWER TRANSFORMER
S401 VOLTAGE SELECTOR
110-120V
220-240V
AC IN
CN401
E MODEL
US/CND/AEP/AUS MODEL
PS401 ICP-N25 (1.0A)
PS402 ICP-N25 (1.0A)
C910(US/CND) C90ES MODEL
C910(AEP/E/AUS) MODEL
D401 11ES2
D402 11ES2
D403 11ES2
D404 11ES2
D411 11ES2

## 5-3. SCHEMATIC DIAGRAM BD Section • Refer to page 20,21 for Circuit Boards Location and Semiconductor Lead Layouts.




## *MC-Service*

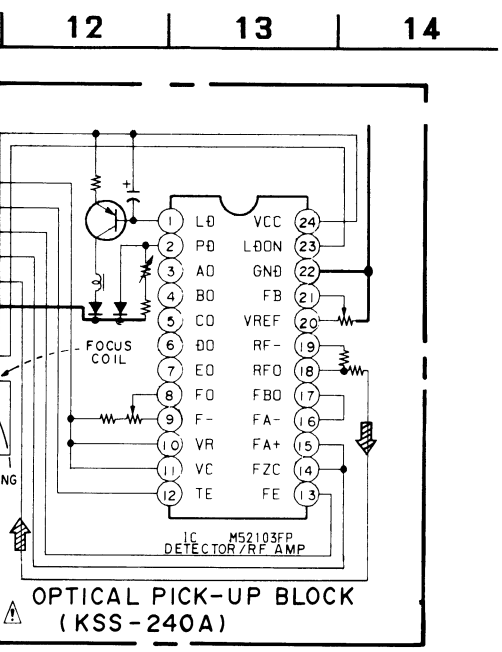
**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.

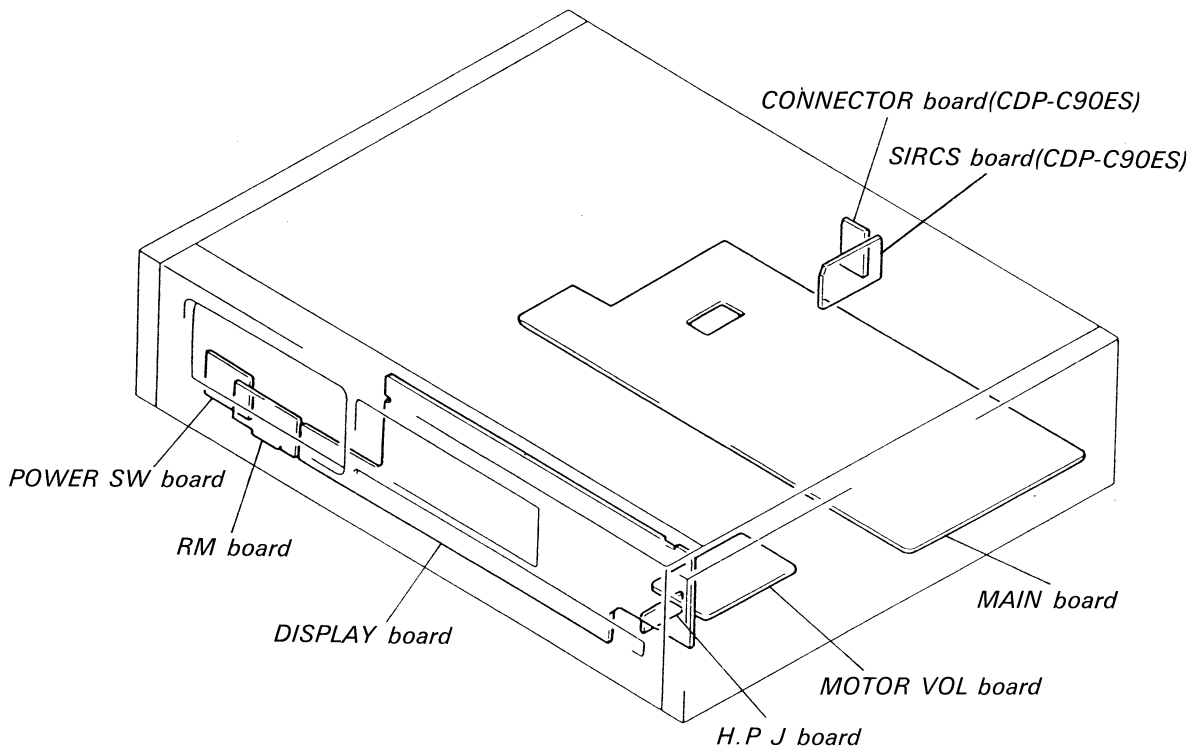
| | |
|---|---|
| **Note:**<br>The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | **Note:**<br>Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

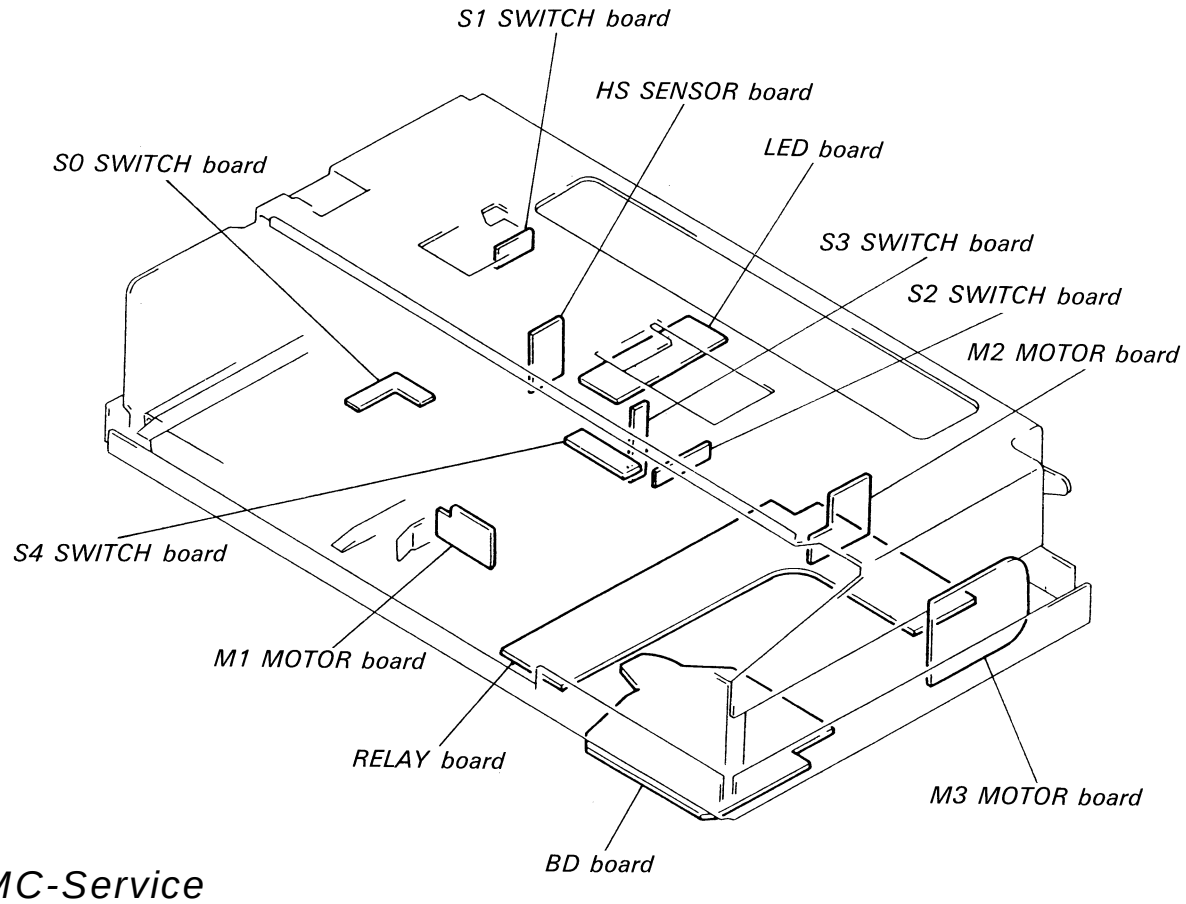
- ▬▬ : B+ Line
- ▭ : adjustment for repair.

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : Stop mode
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD



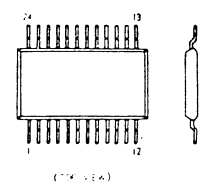

## ● Circuit Boards Location



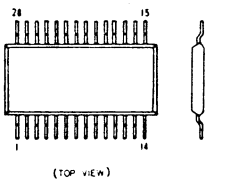




## ● Semiconductor Lead I

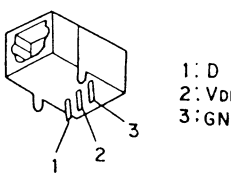
**CXD2560M**



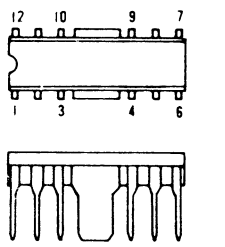
**CXD2561M**
**CXD2561M-1**



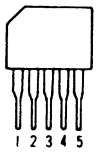

**GP-1F31T**



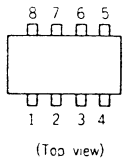

**LB1649**




**M5231TL**



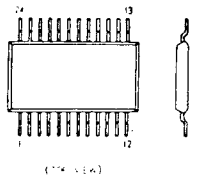

**RC4556D**



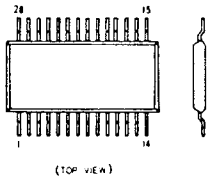

*MC-Service*

## ● Semiconductor Lead Layouts

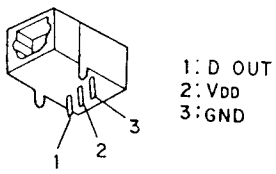
### CXD2560M



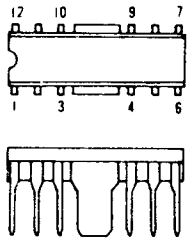
### CXD2561M
### CXD2561M-1



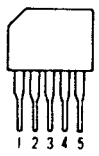

### GP-1F31T



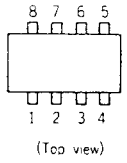

### LB1649



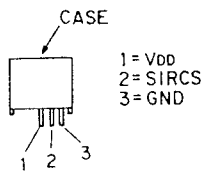
### M5231TL



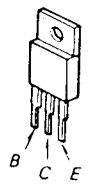
### RC4556D



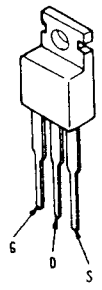

### SBX1610-59



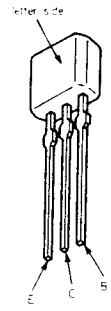

### 2SB1094-L
### 2SD1913-RS



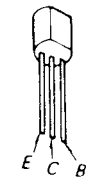
### 2SB1274SA-RS



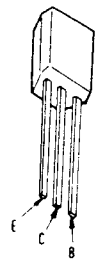
### 2SC2785-HFE



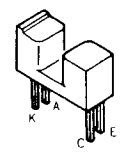
### 2SC2878-AB



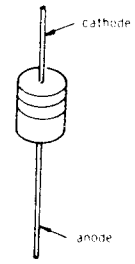
### 2SC3623A-LK
### DTA114ES
### DTA144ES
### DTC144ES



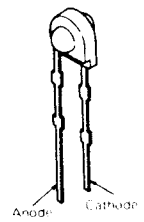
### GP-1S53



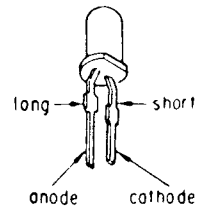
### 11EQS04
### 11ES2
### 1SS120
### HZS6C3L
### SLR-54GG4-L
### UZL-6L1
### UZL-6L3
### UZL-9M2



### BR4361F



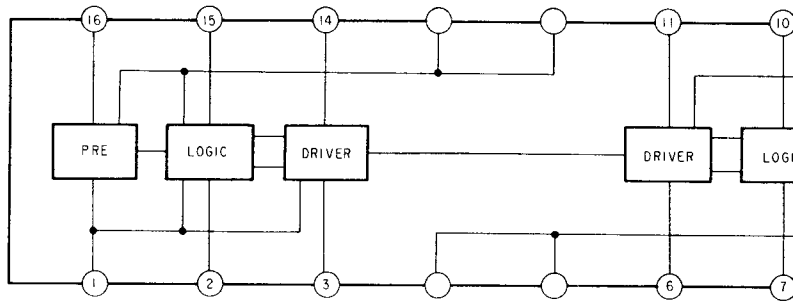
### SEL3510C-TH12
### SEL3810A-TH12



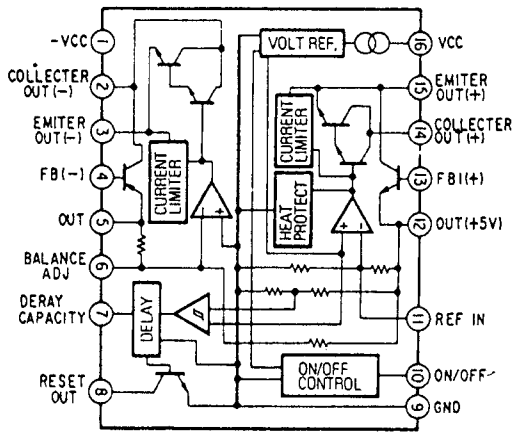


## ● IC Block Diagrams

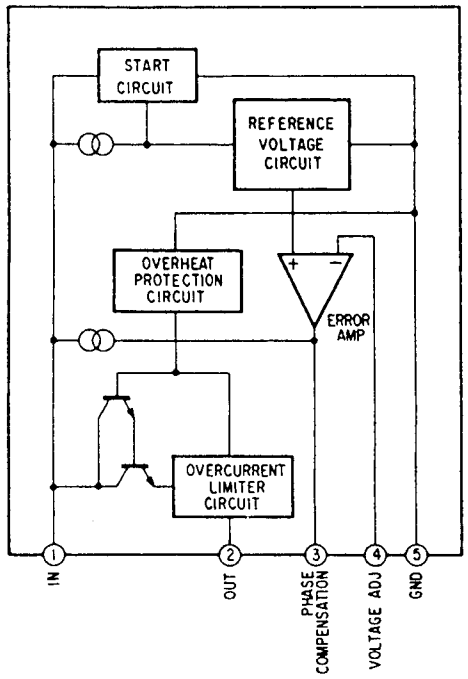
### IC504,505 LB1649



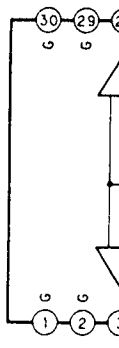

### IC401 M5290P-16




### IC411 M5231TL




### IC102 LA



*MC-Service*

0-59

1 = VDD
2 = SIRCS
3 = GND

4-L
3-RS

E

4SA-RS

S

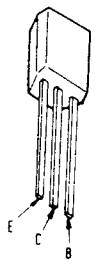
5-HFE

S

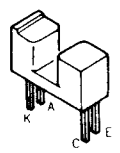
8-AB

B

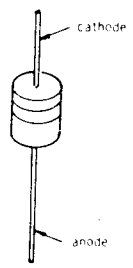
**2SC3623A-LK**
**DTA114ES**
**DTA144ES**
**DTC144ES**



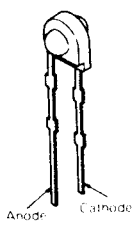

**GP-1S53**



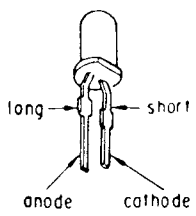

**11EQS04**
**11ES2**
**1SS120**
**HZS6C3L**
**SLR-54GG4-L**
**UZL-6L1**
**UZL-6L3**
**UZL-9M2**




**BR4361F**

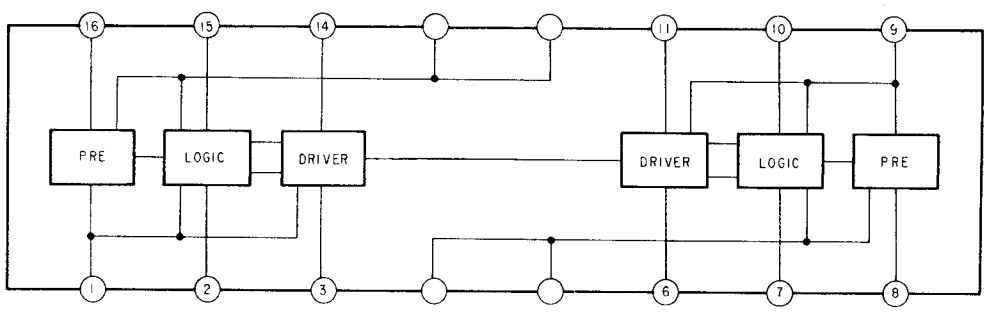



**SEL3510C-TH12**
**SEL3810A-TH12**

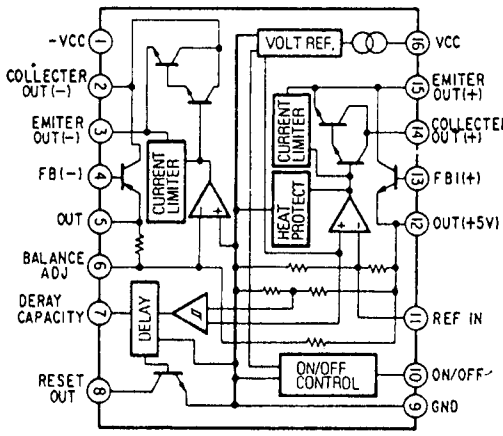



## ● IC Block Diagrams

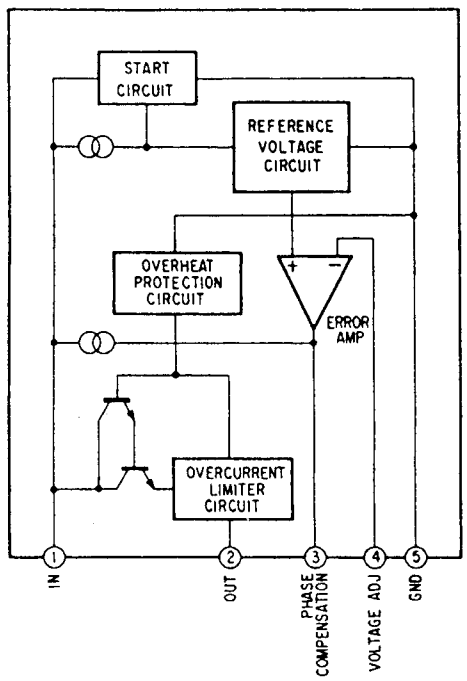
### IC504,505 LB1649



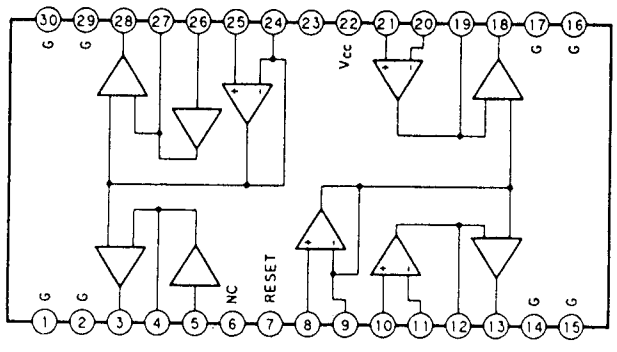

### IC401 M5290P-16




### IC411 M5231TL




### IC102 LA6532M

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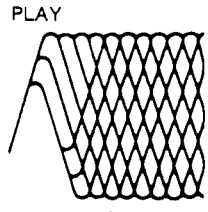
## 5-4. WAVEFORMS

❶




IC101 (40) PLAY (RF)

❷

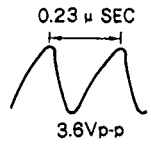
IC101 (43) PLAY (TES)

❸

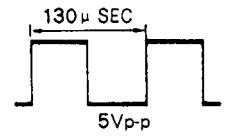
IC101 (47) PLAY (FES)

❹

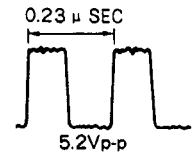
❺



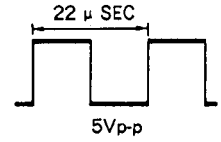

❻



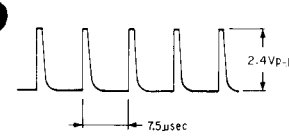

❼




❽




❾




IC301 (4) PLAY (MDP)

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# SECTION 6
# EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

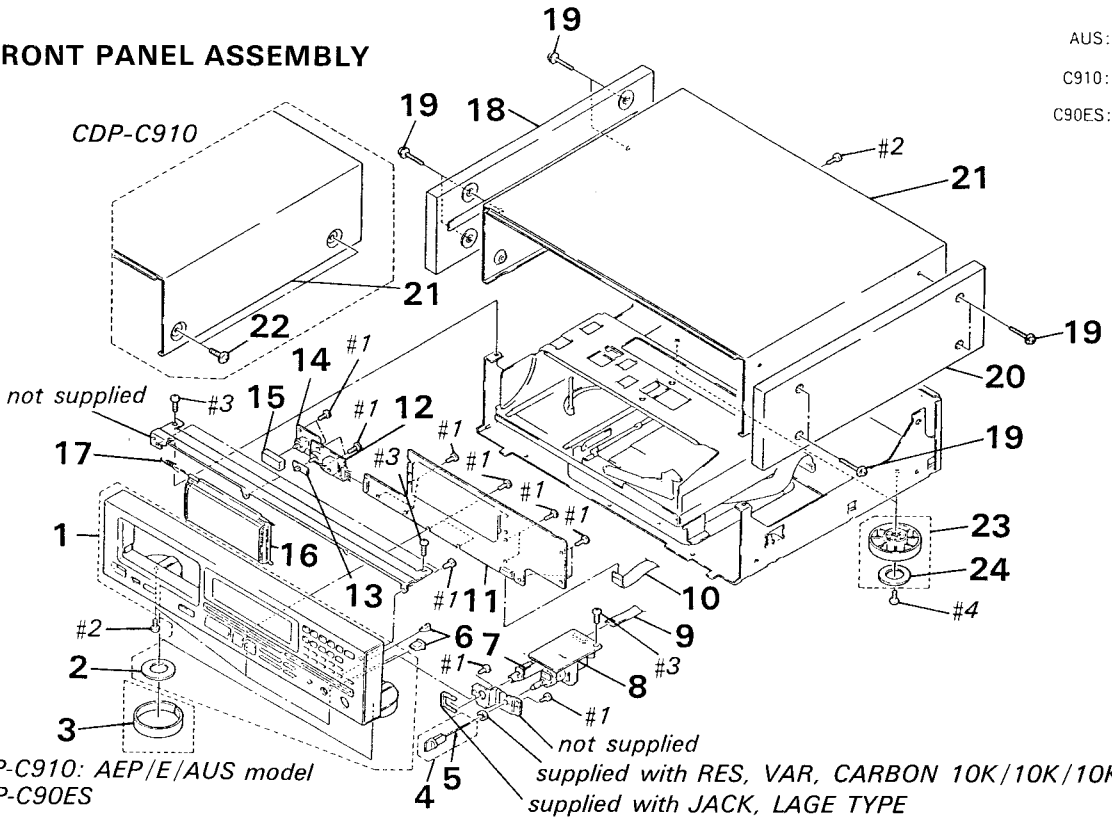
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

AUS: Australian
C910: CDP-C910
C90ES: CDP-C90ES

## 6-1. FRONT PANEL ASSEMBLY




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-4941-764-1 | PANEL ASSY, FRONT (C910:US, Canadian) | |
| 1 | X-4941-767-1 | PANEL ASSY, FRONT (C90ES) | |
| 1 | X-4941-768-1 | PANEL ASSY, FRONT (C910:AEP, E, AUS) | |
| 2 | 4-926-391-01 | FOOT (FELT) | |
| 3 | 4-926-398-01 | PLATE, ORNAMENTAL (C910:AEP, E, AUS/C90ES) | |
| 4 | A-4604-869-A | KNOB (HP) ASSY | |
| 5 | 4-922-979-41 | INDICATOR | |
| 6 | 4-941-079-01 | BUTTON (20 KEY) | |
| 7 | * 1-640-361-11 | H. P J BOARD | |
| 8 | * 1-640-360-11 | MOTOR VOL BOARD | |
| 9 | 1-575-218-11 | WIRE, FLAT TYPE (17 CORE) | |
| 10 | 1-690-113-11 | WIRE, FLAT TYPE (15 CORE) | |
| 11 | * A-4617-923-A | DISPLAY BOARD, COMPLETE (C90ES) | |
| 11 | * A-4617-929-A | DISPLAY BOARD, COMPLETE (C910) | |
| 12 | * 1-640-359-11 | RM BOARD | |
| 13 | 4-922-518-11 | KNOB (TIMER) | |
| 14 | * 1-640-358-11 | POWER SW BOARD | |
| 15 | 4-922-921-01 | BUTTON (POWER) | |
| 16 | 4-946-204-01 | PANEL (M) (C910) | |
| 16 | 4-946-204-11 | PANEL (M) (C90ES) | |
| 17 | 4-924-499-01 | SPRING | |
| 18 | X-4941-769-1 | PLAET (L) ASSY, SIDE, ORNAMENTAL (C90ES) | |
| 19 | 4-885-979-11 | SCREW (4X25) (C90ES) | |
| 20 | X-4941-770-1 | PLAET (R) ASSY, SIDE, ORNAMENTAL (C90ES) | |
| 21 | * 4-934-043-21 | CASE (C910) | |
| 21 | 4-934-043-61 | CASE (C90ES) | |
| 22 | 4-847-802-00 | SCREW (C910) | |
| 23 | X-3304-938-2 | FOOT ASSY (C910:AEP, E, AUS/C90ES) | |
| 23 | X-4885-950-1 | FOOT ASSY (C910:US, Canadian) | |
| 24 | 4-923-836-11 | CUSHION | |

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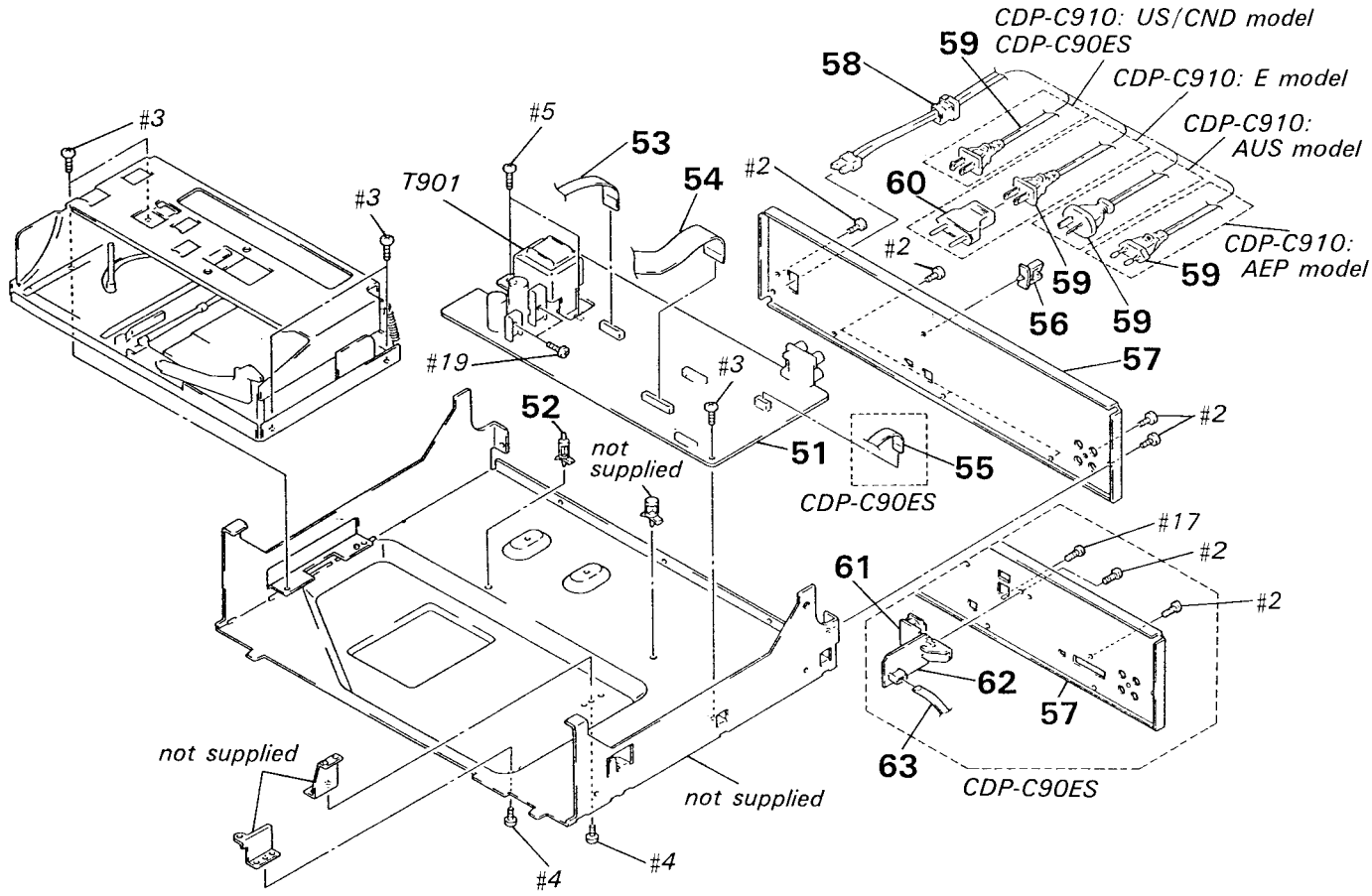
## 6-2. CHASSIS ASSEMBLY




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | * A-4617-922-A | MAIN BOARD, COMPLETE (C90ES) | |
| 51 | * A-4617-926-A | MAIN BOARD, COMPLETE (C910:AEP, AUS) | |
| 51 | * A-4617-927-A | MAIN BOARD, COMPLETE (C910:US, Canadian) | |
| 51 | * A-4617-928-A | MAIN BOARD, COMPLETE (C910:E) | |
| 52 | * 3-346-265-11 | HOLDER, PC BOARD | |
| 53 | 1-575-664-11 | WIRE, FLAT TYPE (15 CORE) | |
| 54 | 1-535-944-11 | JUMPER, FILM (WITH TERMINAL) | |
| 55 | 1-690-114-11 | WIRE, FLAT TYPE (7 CORE) (C90ES) | |
| 57 | * 4-945-368-11 | PANEL, BACK (C910:US, Canadian) | |
| 57 | * 4-945-368-31 | PANEL, BACK (C910:AEP) | |
| 57 | * 4-945-368-41 | PANEL, BACK (C910:E) | |
| 57 | * 4-945-368-51 | PANEL, BACK (C910:AUS) | |
| 57 | * 4-945-368-61 | PANEL, BACK (C90ES) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 58 | * 3-703-244-00 | BUSHING (2104), CORD (C910:US, Canadian, AEP, AUS/C90ES) | |
| 58 | * 3-703-571-11 | BUSHING (S) (4516), CORD (C910:E) | |
| 59 | ⚠ 1-574-358-31 | CORD, POWER (WITH CONNECTOR) (C910:AUS) | |
| 59 | ⚠ 1-575-651-21 | CORD, POWER (C910:AEP) | |
| 59 | ⚠ 1-575-653-21 | CORD, POWER (C910:E) | |
| 59 | ⚠ 1-590-926-11 | CORD, POWER (C910:US, Canadian/C90ES) | |
| 60 | ⚠ 1-569-007-11 | ADAPTER, CONVERSION 2P (C910:E) | |
| 61 | * 1-640-363-11 | CONNECTOR BOARD (C90ES) | |
| 62 | * 1-640-362-11 | SIRCS BOARD (C90ES) | |
| 63 | 1-590-031-11 | WIRE, FLAT TYPE (5 CORE) (C90ES) | |
| T901 | ⚠ 1-450-614-11 | TRANSFORMER, POWER (C910:US, Canadian/C90ES) | |
| T901 | ⚠ 1-450-615-11 | TRANSFORMER, POWER (C910:AEP, AUS) | |
| T901 | ⚠ 1-450-616-11 | TRANSFORMER, POWER (C910:E) | |

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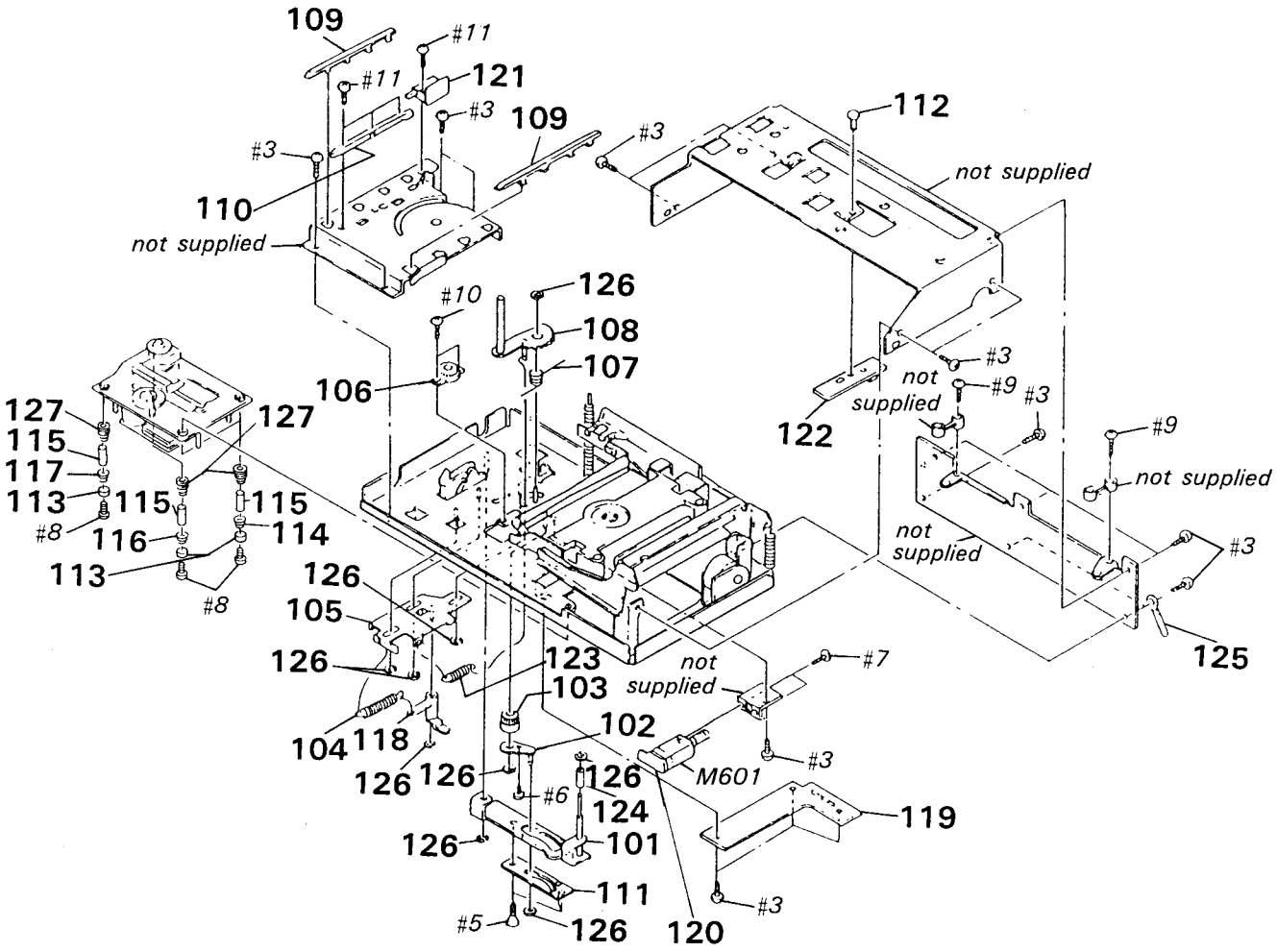
**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

**Note:**
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

## 6-3. MD SECTION-1 (CDM10-5BD7)

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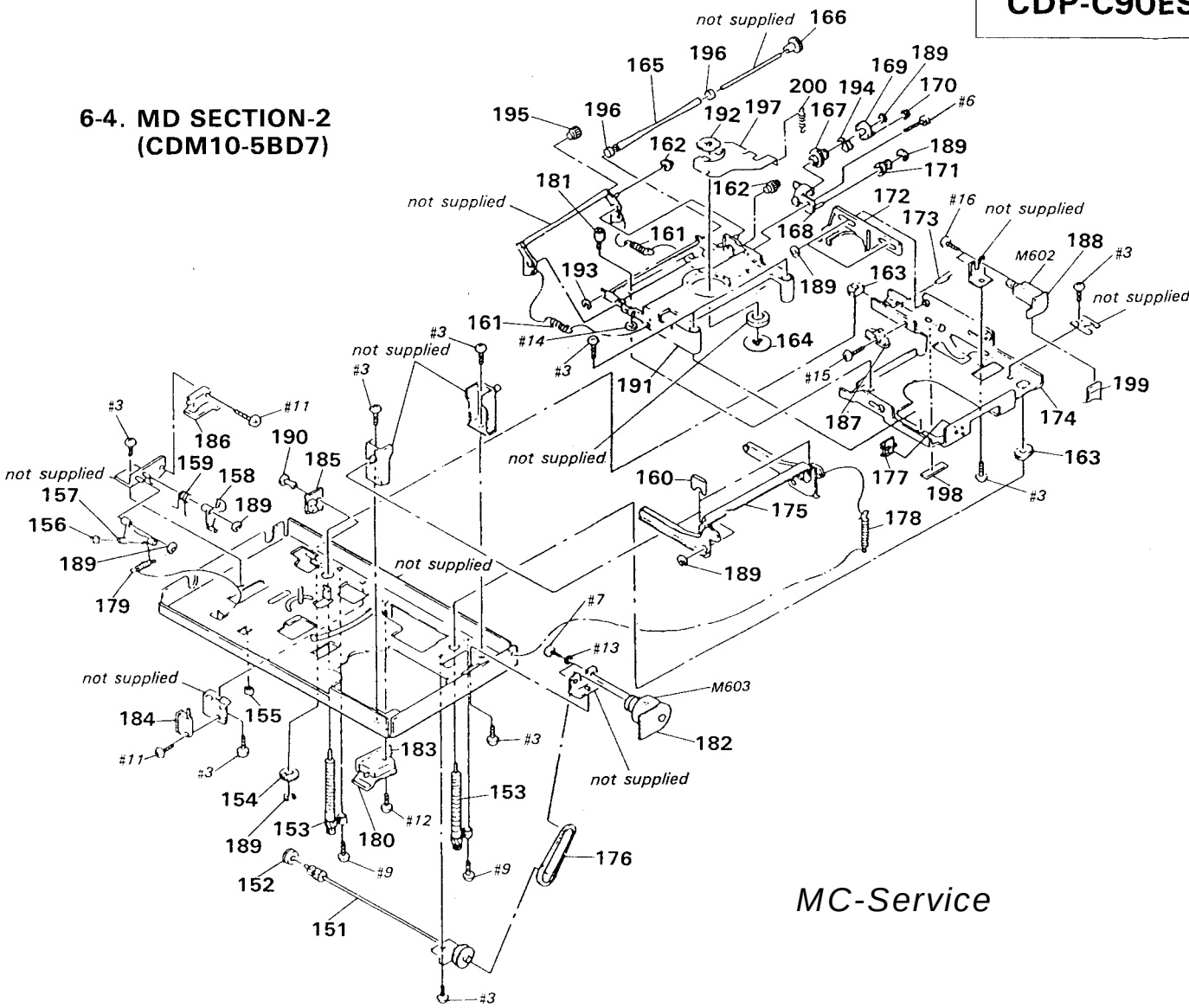
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | * X-4917-728-1 | LEVER (D1) ASSY | |
| 102 | X-4917-733-1 | LEVER (G) ASSY | |
| 103 | 4-926-230-11 | GEAR (P1) | |
| 104 | 4-926-213-01 | SPRING (1), TENSION | |
| 105 | X-4941-772-1 | SLIDER (A) ASSY | |
| 106 | 3-319-224-31 | DAMPER, SMALL | |
| 107 | 4-926-208-01 | SPRING (EJECT) | |
| 108 | X-4917-729-1 | LEVER (E) ASSY | |
| 109 | 4-926-246-01 | RAIL | |
| 110 | * 4-926-247-01 | GUIDE | |
| 111 | * 4-926-210-11 | LEVER (D2) | |
| 112 | 3-531-576-11 | RIVET | |
| 113 | 4-917-508-01 | HOLDER, SP | |
| 114 | 4-917-507-01 | SPRING (H) | |
| 115 | * 4-926-249-01 | COLLAR | |
| 116 | 4-917-541-01 | SPRING (B) | |
| 117 | 4-918-669-01 | SPRING (W) | |
| 118 | 4-926-244-01 | LEVER (EJECT) | |
| 119 | * 1-640-369-11 | RELAY BOARD | |
| 120 | * 1-640-364-11 | M1 MOTOR BOARD | |
| 121 | * 1-640-371-11 | S1 SWITCH BOARD | |
| 122 | * 1-640-370-11 | LED BOARD | |
| 123 | 4-926-201-01 | SPRING (2), TENSION | |
| 124 | * 4-927-507-01 | ROLLER (D) | |
| 125 | * 3-701-822-00 | HOLDER, WIRE | |
| 126 | 3-701-439-01 | WASHER | |
| 127 | 4-917-562-01 | INSULATOR | |
| M601 | A-4608-356-A | MOTOR ASSY, M1 (PACK EJECT/LEVER OUT) | |

## 6-4. MD SECTION-2 (CDM10-5BD7)

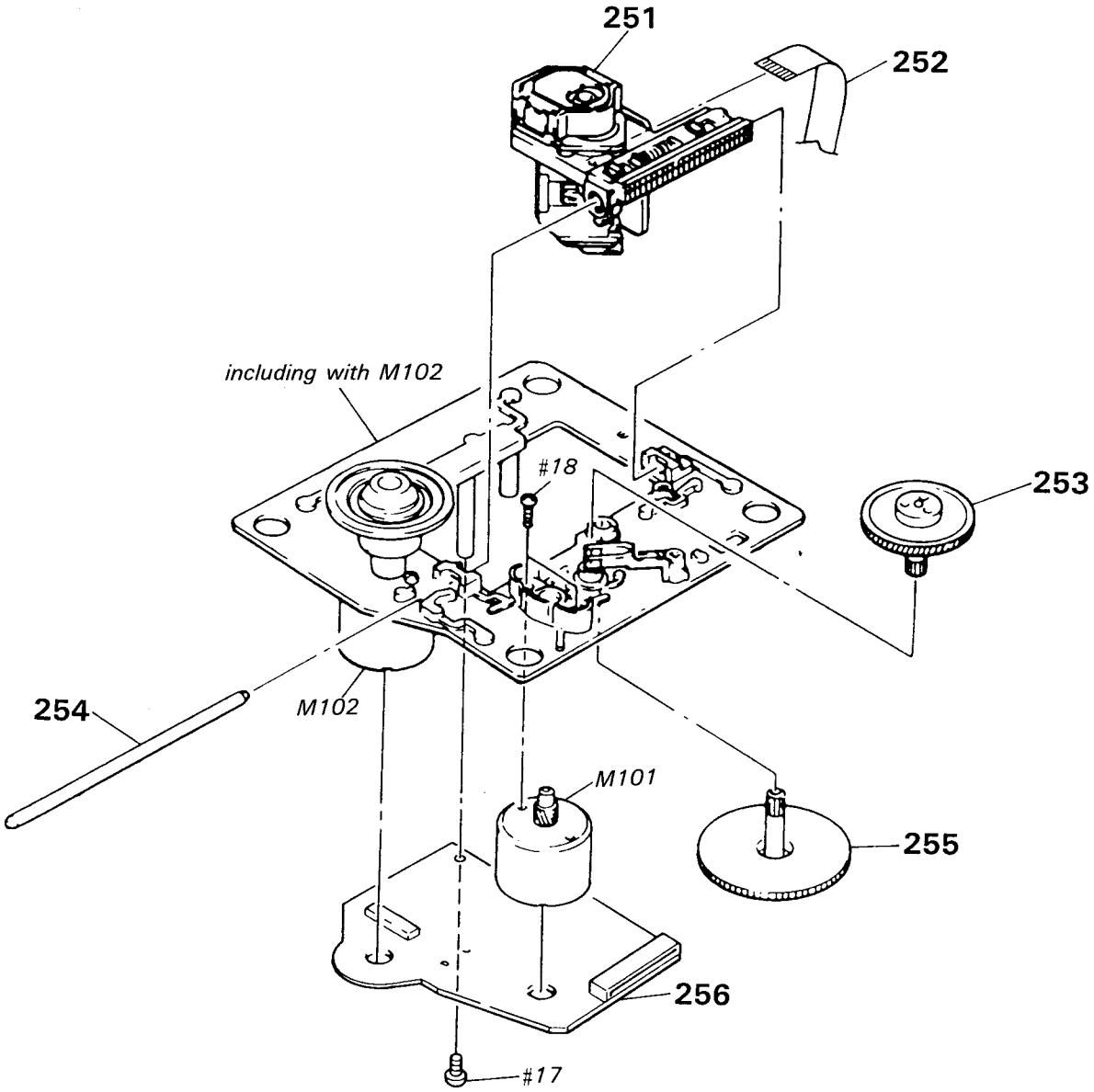



*MC-Service*

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | A-4675-265-A | GEAR ASSY | |
| 152 | 4-926-211-01 | BEARING | |
| 153 | * A-4675-264-A | SCREW ASSY | |
| 154 | 4-926-232-01 | GEAR (S) | |
| 155 | 4-887-175-00 | RUBBER, STOPPER | |
| 156 | 4-926-215-01 | HOLDER | |
| 157 | 4-926-209-01 | LEVER (STOP) | |
| 158 | 4-926-245-01 | LEVER (P) | |
| 159 | 4-920-299-01 | SPRING (LOCK) | |
| 160 | * 4-927-508-01 | SPACER | |
| 161 | 4-926-214-01 | SPRING (3), TENSION | |
| 162 | 4-926-235-11 | GEAR (R3) | |
| 163 | 4-926-241-01 | HOLDER (E2) | |
| 164 | 4-921-022-01 | PULLEY, CHUCKING | |
| 165 | 3-323-231-02 | ROLLER (LOWER) | |
| 166 | 4-926-233-11 | GEAR (R1) | |
| 167 | 4-926-234-11 | GEAR (R2) | |
| 168 | X-4941-771-1 | HOLDER (G) ASSY | |
| 169 | 4-926-239-11 | GEAR (R7) | |
| 170 | 4-926-250-01 | ROLLER (S) | |
| 171 | 4-926-238-11 | GEAR (R6) | |
| 172 | 4-920-289-01 | SLIDER (B) | |
| 173 | 4-920-298-01 | SPRING (CLIP) | |
| 174 | * X-4917-738-4 | CHASSIS (E) ASSY | |
| 175 | * A-4675-256-A | ARM ASSY | |
| 176 | 4-920-288-01 | BELT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 177 | * 4-927-599-01 | STOPPER | |
| 178 | 4-926-202-01 | SPRING (4), TENSION | |
| 179 | 4-926-203-01 | SPRING (5), TENSION | |
| 180 | * 4-926-590-01 | HOLDER (S) | |
| 181 | 4-932-901-01 | BOLT (SPECIAL), HEXAGON SOCKET | |
| 182 | * 1-640-365-11 | M3 MOTOR BOARD | |
| 183 | * 1-640-368-11 | S2 SWITCH BOARD | |
| 184 | * 1-640-366-11 | S3 SWITCH BOARD | |
| 185 | * 1-640-367-11 | HS SENSOR BOARD | |
| 186 | * 1-640-372-11 | S0 SWITCH BOARD | |
| 187 | * 1-640-374-11 | S4 SWITCH BOARD | |
| 188 | * 1-640-373-11 | M2 MOTOR BOARD | |
| 189 | 4-926-219-01 | RING (DIA. 2.3), RETAINING | |
| 190 | 3-531-576-11 | RIVET | |
| 191 | X-4917-777-1 | ESCUTCHEON (2) ASSY | |
| 192 | 4-921-029-01 | YOKE, CHUCKING | |
| 193 | 4-926-218-01 | RING (DIA. 2), RETAINING | |
| 194 | A-4675-276-A | GEAR ASSY, PLANET | |
| 195 | 4-926-236-11 | GEAR (R4) | |
| 196 | 4-932-905-01 | ROLLER | |
| 197 | * 4-932-904-01 | ARM | |
| 198 | 3-831-441-XX | CUSHION (B), CABINET | |
| 199 | 1-690-115-11 | WIRE, FLAT TYPE | |
| 200 | 4-932-906-01 | SPRING (ARM), TENSION | |
| M602 | A-4608-360-A | MOTOR ASSY, M2 (SAVE/LOAD) | |
| M603 | A-4608-358-A | MOTOR ASSY, M3 (ELEVATOR UP/DOWN) | |

## 6-5. OPTICAL PICK-UP BLOCK (BU-5BD7)




*MC-Service*

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 251 | 8-848-144-11 | PICK-UP, OPTICAL KSS-240A | |
| 252 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | |
| 253 | 4-917-567-01 | GEAR (M) | |
| 254 | 4-917-565-01 | SHAFT, SLED | |
| 255 | 4-917-564-01 | GEAR (P), FLATNESS | |
| 256 | * A-4617-371-A | BD BOARD, COMPLETE | |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| M102 | X-4917-523-3 | MOTOR ASSY (SPINDLE) | |

# SECTION 7
# ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL:Metal-film resistor
  METAL OXIDE:Metal Oxide-film resistor
  F:nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:$\mu$ , for example:
  uA...: $\mu$A..., uPA...: $\mu$PA...,
  uPB...: $\mu$PB..., uPC...: $\mu$PC...,
  uPD...: $\mu$PB...
- CAPACITORS
  uF: $\mu$F
- COILS
  uH: $\mu$H

When indication parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

AUS:Australian
C910:CDP-C910
C90ES:CDP-C90ES

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | * A-4617-371-A | BD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C102 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V |
| C103 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C104 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C105 | 1-126-154-11 | ELECT | 47uF | 20% | 6.3V |
| C106 | 1-126-154-11 | ELECT | 47uF | 20% | 6.3V |
| C107 | 1-126-154-11 | ELECT | 47uF | 20% | 6.3V |
| C108 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C109 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C110 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V |
| C111 | 1-131-367-00 | TANTALUM | 22uF | 10% | 20V |
| C112 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C113 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C114 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C115 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C117 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C118 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C119 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C120 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V |
| C151 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V |
| C152 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C153 | 1-163-006-11 | CERAMIC CHIP | 560PF | 10% | 50V |
| C154 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C155 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C171 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C172 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C173 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C174 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < CONNECTOR > | | | |
| CN101 | 1-568-796-11 | SOCKET, CONNECTOR 22P | | | |
| CN102 | 1-568-795-11 | SOCKET, CONNECTOR 12P | | | |
| | | < IC > | | | |
| IC101 | 8-752-050-82 | IC CXA1372Q | | | |
| IC102 | 8-759-822-36 | IC LA6532M | | | |
| | | < JACK > | | | |
| J101 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| J102 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| | | < MOTOR > | | | |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | | | |
| M102 | X-4917-523-3 | MOTOR ASSY (SPINDLE) | | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-901-01 | TRANSISTOR DTC144EK | | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R102 | 1-216-095-00 | METAL CHIP | 82K | 5% | 1/10W |
| R103 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R104 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W |
| R105 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R106 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R107 | 1-216-114-00 | METAL GLAZE | 510K | 5% | 1/10W |
| R108 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R109 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R110 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |

# BD HS SENSOR LED MAIN DISPLAY POWER SW RM MOTOR VOL H.P J SIRCS CONNECTOR

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R111 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R112 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R113 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R114 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R152 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R153 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R154 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R155 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W |
| R156 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R157 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R158 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R159 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R160 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R171 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R172 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R173 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R174 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| | | < VARIABLE RESISTOR > | | | |
| RV101 | 1-238-016-11 | RES, ADJ, CARBON 10K | | | |
| RV102 | 1-238-016-11 | RES, ADJ, CARBON 10K | | | |
| | | < SWITCH > | | | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | | | |
| | | ********** | | | |
| | * 1-640-367-11 | HS SENSOR BOARD | | | |
| | | ********** | | | |
| | | < TRANSISTOR > | | | |
| Q601 | 8-719-941-80 | TRANSISTOR GP1S53 | | | |
| | | ********** | | | |
| | * 1-640-370-11 | LED BOARD | | | |
| | | ********* | | | |
| | | < CONNECTOR > | | | |
| CNP604 | * 1-564-495-11 | PIN, CONNECTOR 2P | | | |
| | | < DIODE > | | | |
| D601 | 8-719-107-82 | DIODE SE303AY | | | |
| D602 | 8-719-107-82 | DIODE SE303AY | | | |

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | * A-4617-922-A | MAIN BOARD, COMPLETE (C90ES) | | | |
| | * A-4617-926-A | MAIN BOARD, COMPLETE (910:AEP, AUS) | | | |
| | * A-4617-927-A | MAIN BOARD, COMPLETE (910:US, Canadian) | | | |
| | * A-4617-928-A | MAIN BOARD, COMPLETE (910:E) | | | |
| | | ********** | | | |
| | * A-4617-923-A | DISPLAY BOARD, COMPLETE (C90ES) | | | |
| | * A-4617-929-A | DISPLAY BOARD, COMPLETE (910) | | | |
| | | ********** | | | |
| | * 1-640-358-11 | POWER SW BOARD | | | |
| | | ********** | | | |
| | * 1-640-359-11 | RM BOARD | | | |
| | | ******** | | | |
| | * 1-640-360-11 | MOTOR VOL BOARD | | | |
| | | ********** | | | |
| | * 1-640-361-11 | H.P J BOARD | | | |
| | | ********** | | | |
| | * 1-640-362-11 | SIRCS BOARD (C90ES) | | | |
| | | ********** | | | |
| | * 1-640-363-11 | CONNECTOR BOARD (C90ES) | | | |
| | | ********** | | | |
| | * 3-322-818-01 | HOLDER, CONNECTOR (C90ES) | | | |
| | * 4-922-980-01 | HOLDER (LED) | | | |
| (Q401) | * 4-941-237-01 | HEAT SINK | | | |
| (Q402) | 4-902-345-01 | HEAT SINK | | | |
| (FLH701) | *4-946-721-01 | HOLDER (FL/L) | | | |
| (FLH702) | *4-946-209-01 | HOLDER (FL) | | | |
| (Q602) | 4-946-219-01 | HOLDER, LED | | | |
| | 7-682-547-09 | SCREW +B 3X6 | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C102 | 1-162-289-31 | CERAMIC | 390PF | 10% | 50V |
| C103 | 1-162-285-31 | CERAMIC | 180PF | 10% | 50V |
| C104 | 1-162-285-31 | CERAMIC | 180PF | 10% | 50V |
| C105 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C106 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C107 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C121 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C122 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |
| C131 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C151 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C201 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C202 | 1-162-289-31 | CERAMIC | 390PF | 10% | 50V |
| C203 | 1-162-285-31 | CERAMIC | 180PF | 10% | 50V |
| C204 | 1-162-285-31 | CERAMIC | 180PF | 10% | 50V |
| C205 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C206 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C207 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C221 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C222 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |

*MC-Service*

# MAIN DISPLAY POWER SW RM MOTOR VOL H.P J SIRCS CONNECTOR

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C231 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C251 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C301 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C302 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C303 | 1-162-208-31 | CERAMIC | 24PF | 5% | 50V |
| C305 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C306 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C307 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C308 | 1-162-196-31 | CERAMIC | 5.6PF | 10% | 50V |
| C309 | 1-162-196-31 | CERAMIC | 5.6PF | 10% | 50V |
| C310 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C311 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C312 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C313 | 1-126-161-11 | ELECT | 2.2uF | 20% | 50V |
| C314 | 1-126-161-11 | ELECT | 2.2uF | 20% | 50V |
| C351 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C352 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C401 | 1-126-017-11 | ELECT | 6800uF | 20% | 16V |
| C402 | 1-126-017-11 | ELECT | 6800uF | 20% | 16V |
| C403 | 1-126-059-11 | ELECT | 10uF | 20% | 50V |
| C404 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C405 | 1-124-997-11 | ELECT | 470uF | 20% | 10V |
| C406 | 1-124-997-11 | ELECT | 470uF | 20% | 10V |
| C407 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C411 | 1-124-572-11 | ELECT | 100uF | 20% | 63V |
| C412 | 1-126-059-11 | ELECT | 10uF | 20% | 50V |
| C413 | 1-126-059-11 | ELECT | 10uF | 20% | 50V |
| C421 | 1-124-471-00 | ELECT | 1000uF | 20% | 6.3V |
| C431 | 1-126-059-11 | ELECT | 10uF | 20% | 50V |
| C432 | 1-126-101-11 | ELECT | 100uF | 20% | 16V |
| C433 | 1-126-161-11 | ELECT | 2.2uF | 20% | 50V |
| C501 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C502 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C503 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C504 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C505 | 1-125-486-11 | DUBLE LAYERS | 0.22F | | 5.5V |
| C511 | 1-126-025-11 | ELECT | 330uF | 20% | 16V |
| C512 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C551 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C552 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C553 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C554 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C556 | 1-126-300-11 | ELECT | 0.47uF | 20% | 50V |
| C557 | 1-161-374-11 | CERAMIC | 0.0015uF | 20% | 50V |
| C558 | 1-136-161-00 | FILM | 0.047uF | 5% | 50V |
| C561 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C571 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C701 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C702 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C703 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C801 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V (C90ES) |
| C802 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (C90ES) |

< CONNECTOR >

| | | | |
|---|---|---|---|
| CN301 | * | 1-568-836-11 | SOCKET, CONNECTOR 17P |
| CN302 | * | 1-566-859-11 | SOCKET, CONNECTOR 15P (SELIAL CHAIN CONTROL) (C90ES) |
| CN351 | | 1-568-860-11 | SOCKET, CONNECTOR 17P |
| CN352 | * | 1-568-544-11 | PIN, CONNECTOR (PC BOARD) 3P |
| CN353 | | 1-568-545-11 | SOCKET, CONNECTOR (PC BOARD) 3P |
| CN401 | * ⚠ | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P |
| CN501 | * | 1-568-834-11 | SOCKET, CONNECTOR 15P |
| CN551 | | 1-568-802-11 | SOCKET, CONNECTOR 19P |
| CN552 | * | 1-568-834-11 | SOCKET, CONNECTOR 15P |
| CN571 | * | 1-568-826-11 | SOCKET, CONNECTOR 7P (C90ES) |
| CN572 | * | 1-568-824-11 | SOCKET, CONNECTOR 5P (C90ES) |
| CN701 | * | 1-569-306-11 | SOCKET, CONNECTOR 15P |
| CN702 | * | 1-565-347-11 | SOCKET, CONNECTOR (PC BOARD) 8P |
| CN703 | * | 1-568-850-11 | SOCKET, CONNECTOR 7P (C90ES) |
| CN751 | * | 1-565-322-11 | PIN, CONNECTOR (PC BOARD) 8P |
| CN801 | * | 1-568-824-11 | SOCKET, CONNECTOR 5P (C90ES) |
| CN802 | * | 1-560-039-21 | PIN, CONNECTOR (CONTROL S IN) (C90ES) |
| CN803 | * | 1-560-039-21 | PIN, CONNECTOR (CONTROL S OUT) (C90ES) |

< DIODE >

| | | |
|---|---|---|
| D301 | 8-719-210-21 | DIODE 11EQS04 |
| D302 | 8-719-912-20 | DIODE 1SS120 |
| D303 | 8-719-912-20 | DIODE 1SS120 (C90ES) |
| D351 | 8-719-970-49 | DIODE BR4361F |
| D401 | 8-719-200-82 | DIODE 11ES2 |
| D402 | 8-719-200-82 | DIODE 11ES2 |
| D403 | 8-719-200-82 | DIODE 11ES2 |
| D404 | 8-719-200-82 | DIODE 11ES2 |
| D411 | 8-719-200-82 | DIODE 11ES2 |
| D412 | 8-719-933-47 | DIODE SLR-54GG4-L |
| D421 | 8-719-000-54 | DIODE UZL-6L3 |
| D422 | 8-719-912-20 | DIODE 1SS120 |
| D505 | 8-719-912-20 | DIODE 1SS120 |
| D506 | 8-719-000-54 | DIODE UZL-6L3 |
| D507 | 8-719-000-54 | DIODE UZL-6L3 |
| D514 | 8-719-933-41 | DIODE HZS6C3L |
| D515 | 8-719-001-15 | DIODE UZL-9M2 |
| D701 | 8-719-912-20 | DIODE 1SS120 |
| D702 | 8-719-912-20 | DIODE 1SS120 |
| D703 | 8-719-912-20 | DIODE 1SS120 |
| D704 | 8-719-912-20 | DIODE 1SS120 |
| D705 | 8-719-912-20 | DIODE 1SS120 |
| D706 | 8-719-912-20 | DIODE 1SS120 |



MC-Service

# MAIN DISPLAY POWER SW RM MOTOR VOL H.P J SIRCS CONNECTOR

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D707 | 8-719-912-20 | DIODE 1SS120 | |
| D711 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D712 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D713 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D714 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D715 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D716 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D721 | 8-719-313-49 | DIODE SEL3510C-TH12 | |
| D722 | 8-719-313-72 | DIODE SEL3810A-TH12 | |
| D801 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D802 | 8-719-912-20 | DIODE 1SS120 (C90ES) | |
| D803 | 8-719-933-33 | DIODE UZL-6L1 (C90ES) | |
| | | < FLUORESCENT > | |
| FLT701 | 1-519-662-11 | INDICATOR TUBE, FLUORESCENT | |
| | | < IC > | |
| IC301 | 8-752-342-65 | IC CXD2560M | |
| IC302 | 8-752-343-01 | IC CXD2561M (C910) | |
| IC302 | 8-752-344-10 | IC CXD2561M-1 (C90ES) | |
| IC303 | 8-759-990-82 | IC TL082CP | |
| IC304 | 8-759-900-72 | IC NE5532P | |
| IC320 | 8-759-981-85 | IC RC4556D | |
| IC401 | 8-759-630-21 | IC M5290P-16 | |
| IC411 | 8-759-605-43 | IC M5231TL | |
| IC431 | 8-759-945-58 | IC RC4558P | |
| IC501 | 8-759-153-76 | IC uPD75512GF-085 | |
| IC502 | 8-759-822-78 | IC LC3564PML-1015 | |
| IC503 | 8-759-240-69 | IC TC4069UBP | |
| IC504 | 8-759-802-32 | IC LB1649 | |
| IC505 | 8-759-802-32 | IC LB1649 | |
| IC551 | 8-752-337-26 | IC CXD2500AQ | |
| IC552 | 8-759-977-71 | IC GP1F31T | |
| IC701 | 8-759-513-86 | IC MSC62408-025GS-V1K | |
| IC751 | 8-741-100-48 | IC SBX1610-59 | |
| | | < JACK > | |
| J301 | * 1-569-443-11 | JACK, PIN 4P (LINE OUT FIXED/VARIABLE) | (C910) |
| J301 | 1-569-443-21 | JACK, PIN 4P (LINE OUT FIXED/VARIABLE) | (C90ES) |
| J351 | 1-568-519-21 | JACK, LARGE TYPE (PHONES) (C910) | |
| J351 | 1-568-519-41 | JACK, LARGE TYPE (PHONES) (C90ES) | |
| | | < COIL > | |
| L301 | 1-408-403-00 | INDUCTOR 3.3uH | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < LINK > | |
| PS401 | ⚠ 1-532-637-00 | LINK, IC ICP-F25 (1.0A) (C910:AEP, E, AUS) | |
| PS402 | ⚠ 1-532-637-00 | LINK, IC ICP-F25 (1.0A) (C910:AEP, E, AUS) | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q102 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q103 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q104 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q201 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q202 | 8-729-141-30 | TRANSISTOR 2SC3623A-LK | |
| Q203 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q204 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q301 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q302 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q303 | 8-729-900-61 | TRANSISTOR DTA114ES (C90ES) | |
| Q401 | 8-729-111-67 | TRANSISTOR 2SB1274-RS | |
| Q402 | 8-729-820-14 | TRANSISTOR 2SD1913-RS | |
| Q411 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q412 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q413 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q414 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q431 | 8-729-821-73 | TRANSISTOR 2SB1274SA-RS | |
| Q501 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q502 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q503 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q504 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q505 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q506 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q701 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q703 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE (C90ES) | |
| Q801 | 8-729-900-61 | TRANSISTOR DTA114ES (C90ES) | |
| Q802 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE (C90ES) | |
| Q803 | 8-729-900-61 | TRANSISTOR DTA114ES (C90ES) | |
| | | < RESISTOR > | |
| R101 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R102 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R103 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R104 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R105 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R106 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R107 | 1-247-856-00 | CARBON 11K 5% 1/4W | |
| R108 | 1-247-856-00 | CARBON 11K 5% 1/4W | |
| R109 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R110 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

# MAIN DISPLAY POWER SW RM MOTOR VOL H.P J SIRCS CONNECTOR

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R111 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R112 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R113 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R114 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R115 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R116 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R117 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R118 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R121 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R122 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R123 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R124 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R125 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R131 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R132 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R201 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |
| R202 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |
| R203 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |
| R204 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |
| R205 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R206 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R207 | 1-247-856-00 | CARBON | 11K | 5% | 1/4W | |
| R208 | 1-247-856-00 | CARBON | 11K | 5% | 1/4W | |
| R209 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R210 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R211 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R212 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R213 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R214 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R215 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R216 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R217 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R218 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R221 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R222 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R223 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R224 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R225 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R231 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R232 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R301 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R303 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R304 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R305 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R306 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R309 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R310 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R311 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R401 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R402 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R403 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R411 | 1-247-874-11 | CARBON | 62K | 5% | 1/4W | |
| R412 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R413 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R421 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R431 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R432 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R433 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R434 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R435 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | |
| R436 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R501 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R502 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R503 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R504 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R505 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R506 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R507 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W | |
| R508 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R509 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R510 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R511 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R512 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R513 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R514 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R515 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R516 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R517 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R518 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R520 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R521 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R522 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R523 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R524 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R551 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R552 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R553 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R554 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R555 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R556 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R557 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R558 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R559 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R560 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R561 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R562 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R563 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R571 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | (C90ES) |

# MAIN DISPLAY POWER SW RM MOTOR VOL H.P J SIRCS CONNECTOR

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R572 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (C90ES) |
| R701 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R702 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R703 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R704 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R705 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R706 | 1-249-406-11 | CARBON | 120 | 5% | 1/4W |
| R707 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R708 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R709 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R710 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R711 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R712 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R713 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W (C90ES) |
| R714 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W (C90ES) |
| R715 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W (C90ES) |
| R716 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (C90ES) |
| R717 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (C90ES) |
| R718 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (C90ES) |
| R801 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (C90ES) |
| R802 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (C90ES) |
| R803 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (C90ES) |
| | | < VARIABLE RESISTOR > | | | |
| RV351 | 1-241-576-11 | RES, VAR, CARBON 10K/10K/10K (PHONE LEVEL/LINE OUT LEVEL) | | | |
| | | < RELAY > | | | |
| RY101 | 1-515-803-11 | RELAY (C90ES) | | | |
| RY201 | 1-515-803-11 | RELAY (C90ES) | | | |
| | | < SWITCH > | | | |
| S401 | ⚠ 1-571-722-11 | SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (C910:E) | | | |
| S501 | 1-570-815-21 | SWITCH, SLIDE (MODE) (C90ES) | | | |
| S701 | 1-554-303-21 | SWITCH, TACTILE (DISC 1) | | | |
| S702 | 1-554-303-21 | SWITCH, TACTILE (DISC 2) | | | |
| S703 | 1-554-303-21 | SWITCH, TACTILE (DISC 3) | | | |
| S704 | 1-554-303-21 | SWITCH, TACTILE (DISC 4) | | | |
| S705 | 1-554-303-21 | SWITCH, TACTILE (DISC 5) | | | |
| S706 | 1-554-303-21 | SWITCH, TACTILE (DISC 6) | | | |
| S707 | 1-554-303-21 | SWITCH, TACTILE (DISC 7) | | | |
| S708 | 1-554-303-21 | SWITCH, TACTILE (DISC 8) | | | |
| S709 | 1-554-303-21 | SWITCH, TACTILE (DISC 9) | | | |
| S710 | 1-554-303-21 | SWITCH, TACTILE (DISC 10) | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| S711 | 1-554-303-21 | SWITCH, TACTILE (1) | |
| S712 | 1-554-303-21 | SWITCH, TACTILE (2) | |
| S713 | 1-554-303-21 | SWITCH, TACTILE (3) | |
| S714 | 1-554-303-21 | SWITCH, TACTILE (4) | |
| S715 | 1-554-303-21 | SWITCH, TACTILE (5) | |
| S716 | 1-554-303-21 | SWITCH, TACTILE (6) | |
| S717 | 1-554-303-21 | SWITCH, TACTILE (7) | |
| S718 | 1-554-303-21 | SWITCH, TACTILE (8) | |
| S719 | 1-554-303-21 | SWITCH, TACTILE (9) | |
| S720 | 1-554-303-21 | SWITCH, TACTILE (10) | |
| S721 | 1-554-303-21 | SWITCH, TACTILE (DISK SKIP) | |
| S722 | 1-554-303-21 | SWITCH, TACTILE (>10) | |
| S723 | 1-554-303-21 | SWITCH, TACTILE (CONTINUE) | |
| S724 | 1-554-303-21 | SWITCH, TACTILE (SHUFFLE) | |
| S725 | 1-554-303-21 | SWITCH, TACTILE (PROGRAM) | |
| S726 | 1-554-303-21 | SWITCH, TACTILE (BANK) | |
| S727 | 1-554-303-21 | SWITCH, TACTILE (EJECT) | |
| S728 | 1-554-303-21 | SWITCH, TACTILE (PLAY) | |
| S729 | 1-554-303-21 | SWITCH, TACTILE (PAUSE) | |
| S730 | 1-554-303-21 | SWITCH, TACTILE (STOP) | |
| S731 | 1-554-303-21 | SWITCH, TACTILE (SEARCH REC) | |
| S732 | 1-554-303-21 | SWITCH, TACTILE (SEARCH FWD) | |
| S733 | 1-554-303-21 | SWITCH, TACTILE (AMS REW) | |
| S734 | 1-554-303-21 | SWITCH, TACTILE (AMS FF) | |
| S735 | 1-554-303-21 | SWITCH, TACTILE (P. SEARCH) | |
| S736 | 1-554-303-21 | SWITCH, TACTILE (FADER) | |
| S737 | 1-554-303-21 | SWITCH, TACTILE (TIME/MEMO) | |
| S738 | 1-554-303-21 | SWITCH, TACTILE (REPEAT) | |
| S739 | 1-554-303-21 | SWITCH, TACTILE (CHECK) | |
| S740 | 1-554-303-21 | SWITCH, TACTILE (CLEAR) | |
| S741 | 1-554-303-21 | SWITCH, TACTILE (FILE) | |
| S742 | 1-554-303-21 | SWITCH, TACTILE (ERASE) | |
| S743 | 1-554-303-21 | SWITCH, TACTILE (MUSIC SCAN) | |
| S744 | 1-554-303-21 | SWITCH, TACTILE (EDIT) | |
| S745 | 1-554-303-21 | SWITCH, TACTILE (LEVEL FILE) | |
| S751 | 1-572-714-11 | SWITCH, PUSH (POWER) | |
| S752 | 1-570-974-11 | SWITCH, SLIDE (TIMER) | |
| | | < TRANSFORMER > | |
| T901 | ⚠ 1-450-614-11 | TRANSFORMER, POWER (910:US, Canadian/C90ES) | |
| T901 | ⚠ 1-450-615-11 | TRANSFORMER, POWER (910:AEP, AUS) | |
| T901 | ⚠ 1-450-616-11 | TRANSFORMER, POWER (910:E) | |
| | | < CRYSTAL > | |
| X301 | 1-567-965-11 | VIBRATOR, CRYSTAL (22.5MHz) | |
| X501 | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz) | |
| X701 | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz) | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

# M1 MOTOR | M2 MOTOR | M3 MOTOR | RELAY | S0 SWITCH | S1 SWITCH | S2 SWITCH | S3 SWITCH

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | * 1-640-364-11 | M1 MOTOR BOARD | |
| | | ********** | |
| | | < CAPACITOR > | |
| C601 | 1-136-165-00 | FILM 0.1uF 5% 50V | |
| | | < MOTOR > | |
| M601 | A-4608-356-A | MOTOR ASSY, M1 (PACK EJECT/LEVER OUT) | |
| ********** | | | |
| | * 1-640-373-11 | M2 MOTOR BOARD | |
| | | ********** | |
| | | < CAPACITOR > | |
| C602 | 1-136-165-00 | FILM 0.1uF 5% 50V | |
| | | < CONNECTOR > | |
| CN603 | * 1-568-848-11 | SOCKET, CONNECTOR 5P | |
| CNP602 | * 1-564-495-11 | PIN, CONNECTOR 2P | |
| | | < MOTOR > | |
| M602 | A-4608-360-A | MOTOR ASSY, M2 (SAVE/LOAD) | |
| ********** | | | |
| | * 1-640-365-11 | M3 MOTOR BOARD | |
| | | ********** | |
| | | < CAPACITOR > | |
| C603 | 1-136-165-00 | FILM 0.1uF 5% 50V | |
| | | < MOTOR > | |
| M603 | A-4608-358-A | MOTOR ASSY, M3 (ELEVATOR UP/DOWN) | |
| ********** | | | |
| | * 1-640-369-11 | RELAY BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CN610 | * 1-568-858-11 | SOCKET, CONNECTOR 15P | |
| CN611 | * 1-568-848-11 | SOCKET, CONNECTOR 5P | |
| CNP601 | * 1-564-495-11 | PIN, CONNECTOR 2P | |
| CNP605 | * 1-564-497-11 | PIN, CONNECTOR 4P | |
| CNP610 | * 1-564-496-11 | PIN, CONNECTOR 3P | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < CIRCUIT BLOCK > | |
| CP601 | 1-239-141-11 | COMPOSITION CIRCUIT BLOCK | |
| | | < TRANSISTOR > | |
| Q602 | 8-729-904-10 | TRANSISTOR PT360FS | |
| Q603 | 8-729-904-10 | TRANSISTOR PT360FS | |
| ********** | | | |
| | * 1-640-372-11 | S0 SWITCH BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CNP606 | * 1-564-495-11 | PIN, CONNECTOR 2P | |
| CNP607 | * 1-564-495-11 | PIN, CONNECTOR 2P | |
| | | < SWITCH > | |
| S601 | 1-554-205-00 | SWITCH, PUSH (EJECT) | |
| ********** | | | |
| | * 1-640-371-11 | S1 SWITCH BOARD | |
| | | ********** | |
| | | < SWITCH > | |
| S602 | 1-554-205-00 | SWITCH, PUSH (RST) | |
| ********** | | | |
| | * 1-640-368-11 | S2 SWITCH BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CNP608 | * 1-564-336-71 | PIN, CONNECTOR 2P | |
| | | < SWITCH > | |
| S603 | 1-554-205-00 | SWITCH, PUSH (LOT) | |
| ********** | | | |
| | * 1-640-366-11 | S3 SWITCH BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CNP609 | * 1-564-336-81 | PIN, CONNECTOR 2P | |
| | | < SWITCH > | |
| S604 | 1-554-205-00 | SWITCH, PUSH (HOME) | |

## S4 SWITCH

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | * 1-640-374-11 | S4 SWITCH BOARD | |
| | | ********** | |
| | | < SWITCH > | |
| S605 | 1-570-886-11 | SWITCH, MICRO (LOAD IN DET) | |
| | | MISCELLANEOUS | |
| | | ********** | |
| 9 | 1-575-218-11 | WIRE, FLAT TYPE (17 CORE) | |
| 10 | 1-690-113-11 | WIRE, FLAT TYPE (15 CORE) | |
| 53 | 1-575-664-11 | WIRE, FLAT TYPE (15 CORE) | |
| 54 | 1-535-944-11 | JUMPER, FILM (WITH TERMINAL) | |
| 55 | 1-690-114-11 | WIRE, FLAT TYPE (7 CORE) (C90ES) | |
| 59 | ⚠ 1-574-358-31 | CORD, POWER (WITH CONNECTOR) (910:AUS) | |
| 59 | ⚠ 1-575-651-21 | CORD, POWER (910:AEP) | |
| 59 | ⚠ 1-575-653-21 | CORD, POWER (910:E) | |
| 59 | ⚠ 1-590-926-11 | CORD, POWER (910:US, Canadian/C90ES) | |
| 60 | ⚠ 1-569-007-11 | ADAPTER, CONVERSION 2P (910:E) | |
| 63 | 1-590-031-11 | WIRE, FLAT TYPE (5 CORE) (C90ES) | |
| 199 | 1-690-115-11 | WIRE, FLAT TYPE | |
| 251 | 8-848-144-11 | PICK-UP, OPTICAL KSS-240A | |
| 252 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| M102 | X-4917-523-3 | MOTOR ASSY (SPINDLE) | |
| M601 | A-4608-356-A | MOTOR ASSY, M1 (PACK EJECT/LEVER OUT) | |
| M602 | A-4608-360-A | MOTOR ASSY, M2 (SAVE/LOAD) | |
| M603 | A-4608-358-A | MOTOR ASSY, M3 (ELEVATOR UP/DOWN) | |

*MC-Service*

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ACCESSORY & PACKING MATERIAL | |
| | | ********** | |
| | 1-465-731-11 | REMOTE COMMANDER (RM-D900) (C90ES) (including $) | |
| | 1-465-732-11 | REMOTE COMMANDER (RM-D910) (C910) (including $) | |
| | 1-558-233-11 | CORD (WITH CONNECTOR) (SIRCS) 4P (C90ES) | |
| | 1-559-533-11 | CORD, CONNECTION | |
| $ | 3-707-584-11 | COVER, BATTERY | |
| | 3-753-610-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (C910:Canadian, AEP, E) | |
| | 3-753-610-21 | MANUAL, INSTRUCTION (ENGLISH) (C910:US, AUS) | |
| | 3-753-610-41 | MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (C910:AEP) | |
| | 3-753-611-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (C90ES) | |
| | 4-847-802-00 | SCREW (C90ES) | |
| * | 4-885-838-00 | LABEL, CLASS 1 (C910:AEP, E, AUS) | |
| * | 4-946-352-01 | INDIVIDUAL CARTON (C910) | |
| * | 4-946-353-01 | INDIVIDUAL CARTON (C90ES) | |
| * | 4-946-354-01 | CUSHION (UPPER) | |
| * | 4-946-355-01 | CUSHION (LOWER) | |
| | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT | |
| | 7-685-105-19 | TAPPING +P 2X8 NON-SLIT | |
| | A-4675-162-B | MAGAZINE ASSY | |
| | J-609-001-3A | CORD (WITH CONNECTOR) (C90ES) | |

## HARDWARE LIST

| | | |
|---|---|---|
| # 1 | 7-621-773-93 | SCREW (PANEL 2.6 TP2) |
| # 2 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| # 3 | 7-682-547-04 | SCREW +BVTT 3X6 (S) |
| # 4 | 7-682-548-09 | SCREW +BVTT 3X8 (S) |
| # 5 | 7-682-245-09 | SCREW +K 3X4 |
| # 6 | 7-685-103-19 | SCREW +P 2X5 TYPE2 N-S |
| # 7 | 7-621-775-00 | SCREW +B 2.6X3 |
| # 8 | 7-685-868-01 | SCREW +BVTT 2.6X20 (S) |
| # 9 | 7-682-548-04 | SCREW +BVTT 3X8 (S) |
| #10 | 7-621-255-25 | SCREW +BVTT 2X4 (S) |
| #11 | 7-621-773-87 | SCREW +BVTT 2.6X10 (S) |
| #12 | 7-621-775-68 | SCREW +BVTT 2.6X12 (S) |
| #13 | 7-688-002-03 | W 2.6, SMALL |
| #14 | 7-624-105-04 | STOP RING 2.3, TYPE -E |
| #15 | 7-627-553-78 | SCREW, PRECISION +P 2X10 |
| #16 | 7-621-772-00 | SCREW +B 2X3 |
| #17 | 7-685-134-19 | SCREW +BTP 2.6X8 TYPE2 N-S |
| #18 | 7-621-255-15 | SCREW +P 2X3 |
| #19 | 7-682-547-09 | SCREW +B 3X6 |

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Ne les remplacer que par une pièce portant le numéro spécifié.

9-956-548-11

Sony Corporation
Audio Group

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